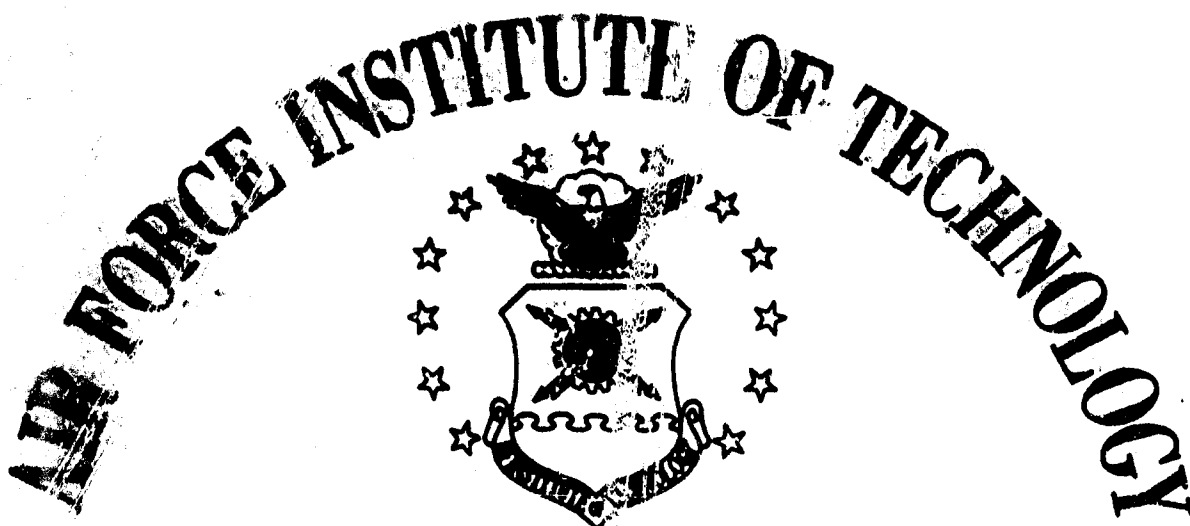
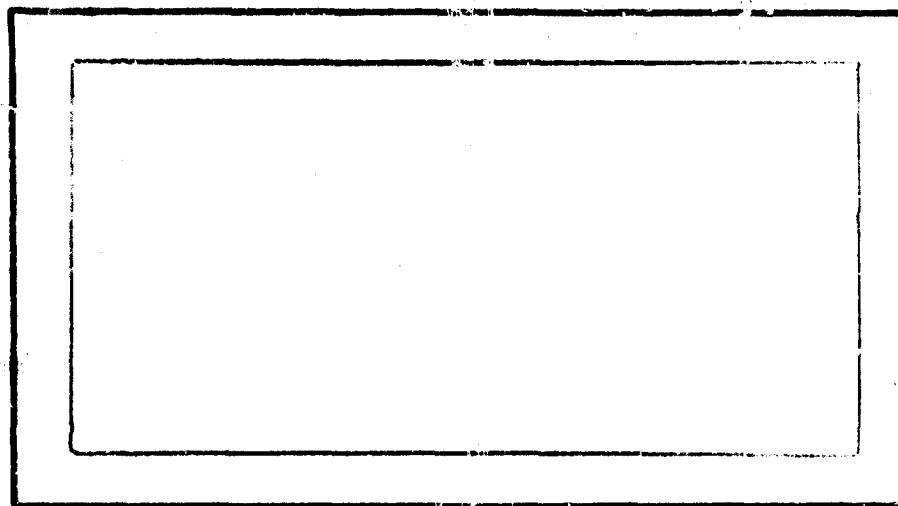


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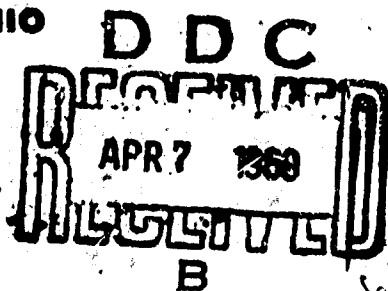
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LEAST-SQUARES CONDITIONAL  
ESTIMATION OF THE LOCATION PARAMETER  
OF WEIBULL POPULATIONS

THESIS

GAW/MATH/68-1 William J. Herman  
Captain USAF

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THESIS

Presented to the Faculty of the School of Engineering of  
the Air Force Institute of Technology  
Air University  
in Partial Fulfillment of the  
Requirements for the Degree of  
Master of Science

by

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June 1968

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Preface

This thesis represents one in a series of theses on the estimation of Weibull location and scale parameters. The primary objective was to tabulate coefficients for a conditional estimator for the location parameter. However, it was found that by including the coefficients for the scale parameter estimator, one could eliminate the need for reference to previously compiled tables for simultaneous estimators.

The estimation technique, while applied only to the Weibull distribution here, is presented in general form and can easily be applied to many continuous density functions. The theoretical development is presented in complete detail.

I would like to express my indebtedness to my thesis advisor and sponsor, Professor Albert H. Moore, for his guidance and encouragement in both the formulation and solution of the estimation problem. His insight into the concepts involved enabled me to present a clear, thorough development of the estimation technique.



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Abstract

In recent years much attention has been given to the use of order statistics in the estimation of parameters of continuous probability density functions. In this thesis the method of least-squares is used to find minimum-variance, linear, unbiased, conditional estimators for the location and scale parameters of the Weibull probability density function, based on selected order statistics. The shape parameter is assumed to be known. The equations for the estimators are derived in detail. It is shown that the least-squares simultaneous estimators can be obtained directly from the tabled coefficients for the pair of conditional estimators. The results are presented as a table of coefficients to be used in a linear combination of  $k$  order statistics selected from the  $m$  smallest values of an ordered sample of size  $n$ . The coefficients were tabulated for the estimator with the smallest variance for specified values of  $k$ ,  $m$ ,  $n$ , and shape parameter. Tables are provided for sample sizes  $n = 2$  to 13 and for eleven values of shape parameter: 0.5(0.25)2.0(0.5)4.0.

LEAST-SQUARES CONDITIONAL  
ESTIMATION OF THE LOCATION PARAMETER  
OF WEIBULL POPULATIONS

1. Introduction

Background

Works on order statistics date back as far as the eighteenth century. One of the earliest works in modern times was written by Pearson in 1902 (Ref 10). More recently Wilks made an important contribution by assembling much of the theory of order statistics in one place (Ref 13). However, much work on the use of order statistics has been accomplished through the efforts of Professor A. H. Moore of the Air Force Institute of Technology (AFIT) and Dr. H. L. Harter of the U. S. Air Force Aerospace Research Laboratory. The present work is one in a series of studies by AFIT thesis students based on the use of order statistics in the estimation of the parameters of important probability distributions.

There are two important reasons for using order statistics in parameter estimation. First, in many estimation problems, such as life testing of industrial products, the data naturally occur in ordered form. Note that order here is taken to mean order in size rather than order of occurrence. The natural order in life testing refers to the fact that the smallest failure time occurs first. The second reason for the use of order statistics in estimation is that the methods apply to censored samples as well as uncensored samples.

The distribution of interest in this work is that developed by Weibull to predict the fatigue life of solid materials (Refs 4, 16). Weibull has also pointed out that his distribution fits such diversified distributions as the yield strength in a Bofors steel, the size of fly ash, the fiber strength of Indian cotton, and the breadth of beans of *Phaseolus Vulgaris* (Ref 15:296). More recently the Weibull distribution has been applied to the analysis of failure data in the electronic components (Ref 1:16).

In analyses of failure of mechanical and electronic parts the guaranteed life is represented by the location parameter of the Weibull distribution. Thus, an estimate of the location parameter, in some applications, is an estimate of the guaranteed life of the component.

#### Purpose

The three parameter Weibull probability density function (pdf) is given by

$$f(x) = \begin{cases} \frac{k}{\theta} \left( \frac{x-C}{\theta} \right)^{k-1} e^{-\left( \frac{x-C}{\theta} \right)^k} & x \geq C \\ 0 & x < C \end{cases} \quad (1)$$

where  $C$  is the location parameter,  $\theta$  is the scale or dispersion parameter, and  $k$  is the shape parameter.

The purpose of this thesis was to tabulate coefficients for a least-squares linear, unbiased, conditional estimator of the location parameter of the Weibull pdf by the use of selected order statistics. The estimator is conditioned on the knowledge of the scale parameter.

$\theta$ , and the shape parameter  $K$ . The estimator is linear in that it is of the form

$$\hat{\theta} = \sum_i k_i \lambda_i$$

where  $\hat{\theta}$  is an estimator for the location parameter  $\theta$ ; the  $\lambda_i$  are the ordered sample values (order statistics); and the  $k_i$  are the tabulated coefficients. The summation is taken over the selected sample values, as defined below.

The prime advantage to the use of the method of least-squares in estimating Weibull parameters is that it leads to an unbiased estimator. Harter and Moore (Refs 8, 9, and 10) and Cohen (Ref 3) have developed maximum-likelihood estimators for the parameters of Weibull populations. Some earlier works in this area are cited by Harter and Moore (Ref 10). However, these estimators are biased, and, in some cases are computationally more complicated than the least-squares linear, unbiased estimators. This, in applications where unbiasedness or simplicity are overriding considerations, the least-squares estimators are more desirable than the maximum-likelihood estimators, even though the former may have a larger mean square error.

#### Definitions and Assumptions

Before proceeding further, some definitions and limitations are in order.

Definitions. To understand the concept of order statistics, consider a random sample of size  $N$  from a continuous population. Let the samples be ordered according to size from the smallest to

the largest, and denote the ordered samples  $U_1, U_2, \dots, U_n$ . The  $r^{\text{th}}$  smallest value,  $U_r$ , is called the  $r^{\text{th}}$  order statistic. It is a true statistic and has a density function which is, in general, different from that of the parent population. The distributions of the order statistics are derived in Section III.

Estimators can be based on the entire ordered sample or on some part of the sample. Estimators based on the entire sample are referred to in this paper as  $n$ -order-statistic estimators; those based on a censored sample are called  $m$ -order-statistic estimators. For the purposes of this paper, a censored sample is the subset of the smallest  $m$  sample values out of the  $n$  values. An estimator based on some  $\ell$  values from a censored sample of size  $m$  ( $\ell \leq m \leq n$ ) is said to be based on selected order statistics. It is alternatively referred to as an  $\ell$ -order-statistic estimator.

Censored samples occur frequently in life testing since length of time or unit cost can make testing until all items on test have failed too expensive. The advantage in the use of selected order statistics for estimation is that a small number of appropriately selected samples may yield an estimator only slightly less efficient than one based on the entire censored sample.

Assumptions. The underlying assumption in this thesis is that it is known, either from prior experience or theoretical considerations, that the Weibull pdf adequately models the population under consideration. As pointed out above, there are many cases in which it is known that the Weibull pdf is applicable, so that this assumption is not too restrictive. It is further assumed that the scale and shape parameters are known. Previous AFIT theses have considered the

problems of estimating  $C$  and  $\Theta$  simultaneously (Ref 13), and of estimating  $\Theta$  with  $C$  known (Ref 2). If  $h$  is not known, there are techniques for estimating it (Ref 6).

The coefficients for the conditional estimation of  $\Theta$  were recalculated because it was found that knowledge of the conditional estimators for  $C$  and  $\Theta$  makes tabulation of simultaneous estimation coefficients unnecessary (see Section IV).

The thesis was limited to samples of size  $n = 2$  to 13 and to eleven values of shape parameter,  $K : 0.5(0.25)2.0(0.5)4.0$ . (This notation means from 0.5 to 2.0 in steps of 0.25 and from 2.0 to 4.0 in steps of 0.5).

The remainder of the thesis is devoted to a discussion of the Weibull pdf; the development of the distributions of order statistics; the derivation of the least-squares estimators for the location and scale parameters; and, finally a description of the use of the tables. Appendix A in this volume contains tables of the coefficients of estimation of  $C$  and  $\Theta$  for sample sizes 2 to 10; Appendix B, in the Supplementary Volume, contains tables of the coefficients of estimation for sample sizes 11 to 13.

## II. The Weibull Distribution

The Weibull pdf, given by Eq(1) is repeated below:

$$f(x) = \begin{cases} \frac{K}{\Theta} \left( \frac{x-C}{\Theta} \right)^{K-1} e^{-\left( \frac{x-C}{\Theta} \right)^K} & x \geq C \\ 0 & x < C \end{cases} \quad (1)$$

where  $C$  is the location parameter,  $\Theta$  is the scale parameter, and  $K$  is the shape parameter. The Weibull cumulative distribution function (cdf) is given by

$$F(x) = \begin{cases} 1 - e^{-\left( \frac{x-C}{\Theta} \right)^K} & x \geq C \\ 0 & x < C \end{cases} \quad (2)$$

### Weibull Moments

The  $r^{\text{th}}$  moment about the origin of a probability density function is defined by the relation

$$E(X^r) = \int_{-\infty}^{\infty} x^r f(x) dx \quad (3)$$

where the function  $E[g(X)]$  is the expected value of the function  $g(X)$ . Here an upper case letter refers to a random variable and a lower case letter refers to the value of the random variable.

The Weibull moments from Eq(3) are



$$E(X^r) = \int_c^{\infty} x^r \frac{K}{\theta} \left(\frac{x-c}{\theta}\right)^{K-1} e^{-\left(\frac{x-c}{\theta}\right)^K} dx \quad (4)$$

In evaluating the integral of Eq(4) it is easier to work with the new random variable  $Z = (X-C)/\theta$ . Then  $X = \theta Z + C$ , and the  $r^{th}$  moment of  $X$  is given by

$$E(X^r) = E[(\theta Z + C)^r] \quad (5)$$

For a particular value of  $r$ , the expression  $(\theta Z + C)^r$  can be expanded by the binomial theorem. If the moments of  $Z$  are known,  $E(X^r)$  then easily found with the aid of the relations

$$E(K) = K \text{ if } K = \text{const} \quad (6)$$

and

$$E[(\theta Z)^r] = \theta^r E(Z^r) \quad (7)$$

The pdf of  $Z$  is given by (Ref 5:132):

$$f(z) = f(x) \left| \frac{dx}{dz} \right| \quad (8)$$

From Eq(1),  $f(z)$  is found to be

$$f(z) = \begin{cases} K z^{K-1} e^{-z^K} & z \geq 0 \\ 0 & z < 0 \end{cases} \quad (9)$$

Now from Eq(3):

$$E(Z^r) = \int_0^{\infty} k z^{k-1+r} e^{-z^k} dz \quad (10)$$

To evaluate this integral, let  $w = z^k$ . Then  $z = w^{\frac{1}{k}}$  and  $dz = \frac{1}{k} w^{\frac{1}{k}-1} dw$ ; Eq(10) becomes

$$E(Z^r) = \int_0^{\infty} w^{(1+r/k)-1} e^{-w} dw \quad (11)$$

This integral can be recognized as the gamma function, so that:

$$E(Z^r) = \Gamma\left(1 + \frac{r}{k}\right) \quad (12)$$

The expected value or mean of the Weibull pdf is now seen to be

$$E(X) = C + \theta E(Z)$$

or

$$E(X) = C + \theta \Gamma\left(1 + \frac{1}{k}\right) \quad (13)$$

The variance is defined as

$$\text{Var}(X) = E[(X - \mu)^2] \quad (14)$$

where  $\mu = E(X)$ .

It can be shown (Ref 5:95) that the variance is also given by

$$\text{Var}(X) = E(X^2) - \mu^2 \quad (15)$$

With the aid of Eq(7) we find that the Weibull variance is expressed

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by

$$\text{Var}(X) = \theta^2 \text{Var}(Z) = \theta^2 \left[ \Gamma\left(1 + \frac{2}{k}\right) - \Gamma^2\left(1 + \frac{1}{k}\right) \right] \quad (16)$$

The higher moments are found in a similar manner.

### III. Order Statistics

Let  $X_1, X_2, \dots, X_n$  be a random sample of size  $n$  from a continuous distribution with pdf  $f(x)$  and cdf  $F(x)$ . If these samples are arranged in order of increasing magnitude, and denoted  $U_1, U_2, \dots, U_{n-1}, U_n$ , then the  $r^{\text{th}}$  smallest value,  $U_r$ , is called the  $r^{\text{th}}$  order statistic. In this section, the distributions of the order statistics are derived in a general form. The distributions of the Weibull order statistics and some of their moments are derived from these general expressions.

#### Distributions of Order Statistics

Let the real line be divided into three parts:  $-\infty$  to  $U_r$ ,  $U_r$  to  $U_r + \epsilon$ , and  $U_r + \epsilon$  to  $+\infty$ . For a sample of size  $n$ , the probability that  $r-1$  values fall in the first interval, one falls in the second, and  $n-r$  fall in the third is given by the multinomial law as

$$\frac{n!}{(n-r)!(r-1)!} \left[ \int_{-\infty}^{U_r} f(x) dx \right]^{r-1} \int_{U_r}^{U_r+\epsilon} f(x) dx \left[ \int_{U_r+\epsilon}^{\infty} f(x) dx \right]^{n-r} \quad (17)$$

According to the law of the mean, there exists a  $\bar{s}$  such that

$$\int_{U_r}^{U_r+\epsilon} f(x) dx = f(\bar{s}) \epsilon \quad \text{if } U_r \leq \bar{s} \leq U_r + \epsilon \quad (18)$$

Then in the limit as  $\epsilon \rightarrow 0$ , the probability density function of

$U_r$ , the  $r^{\text{th}}$  order statistic becomes (Ref 5:205):

$$g(u_r) = \frac{n!}{(n-r)!(r-1)!} \left[ \int_{-\infty}^{u_r} f(x) dx \right]^{r-1} f(u_r) \left[ \int_{u_r}^{\infty} f(x) dx \right]^{n-r}, \quad -\infty < u_r < \infty \quad (19)$$

In terms of the cumulative density function,  $F(x)$  :

$$g(u_r) = \frac{n!}{(n-r)!(r-1)!} \left[ F(u_r) \right]^{r-1} f(u_r) \left[ 1 - F(u_r) \right]^{n-r}, \quad -\infty < u_r < \infty \quad (20)$$

A similar procedure leads to the following expression for the joint distribution of  $U_r$  and  $U_s$ ,  $r < s$  :

$$g(u_r, u_s) = \frac{n!}{(r-1)!(s-r-1)!(n-s)!} \left[ F(u_r) \right]^{r-1} \left[ F(u_s) - F(u_r) \right]^{s-r-1} \\ \cdot \left[ 1 - F(u_s) \right]^{n-s} f(u_r) f(u_s), \quad -\infty < u_r < u_s < \infty \quad (21)$$

#### Weibull Order Statistics

The Weibull cdf and pdf can now be substituted into Eq(20) to give an expression for the distributions of the Weibull order statistics. Eqs(1) and (2) give the Weibull pdf and cdf as

$$f(x) = \begin{cases} \frac{K}{\theta} \left( \frac{x-C}{\theta} \right)^{K-1} e^{-\left( \frac{x-C}{\theta} \right)^K} & x \geq C \\ 0 & x < C \end{cases} \quad (1)$$

$$F(x) = \begin{cases} 1 - e^{-\left(\frac{x-c}{\theta}\right)^K} & x \geq c \\ 0 & x < c \end{cases} \quad (2)$$

Eq(20) for the Weibull pdf now becomes:

$$g(u_r) = \frac{n!}{(r-1)!(n-r)!} \left[ 1 - e^{-\left(\frac{u_r-c}{\theta}\right)^K} \right]^{r-1} \left[ e^{-\left(\frac{u_r-c}{\theta}\right)^K} \right]^{n-r} \cdot \frac{K}{\theta} \left(\frac{u_r-c}{\theta}\right)^{K-1} e^{-\left(\frac{u_r-c}{\theta}\right)^K}, \quad 0 \leq c \leq u_r < \infty \quad (22)$$

The joint density is

$$g(u_r, u_s) = \frac{n!}{(r-1)!(s-r-1)!(n-s)!} \left[ 1 - e^{-\left(\frac{u_r-c}{\theta}\right)^K} \right]^{r-1} \cdot \left[ e^{-\left(\frac{u_r-c}{\theta}\right)^K} - e^{-\left(\frac{u_s-c}{\theta}\right)^K} \right]^{s-r-1} \left[ e^{-\left(\frac{u_s-c}{\theta}\right)^K} \right]^{n-s} \cdot \left(\frac{K}{\theta}\right)^2 \left(\frac{u_r-c}{\theta}\right)^{K-1} \left(\frac{u_s-c}{\theta}\right)^{K-1} \exp \left\{ - \left[ \left(\frac{u_r-c}{\theta}\right)^K + \left(\frac{u_s-c}{\theta}\right)^K \right] \right\}, \quad 0 \leq u_r < u_s < \infty \quad (23)$$

So far, the distributions of the Weibull order statistics have been derived using the three parameter Weibull pdf. In the parameter estimation technique discussed in the following section, use is made of standardised order statistics. Therefore the remainder of the derivations in this section will be limited to the distributions and moments of the standardised order statistics. It should be noted

that there is no loss of generality in this technique.

If the substitution  $Z = (X-C)/\theta$  is made in the Weibull pdf, the resulting density function is Weibull with  $C = 0$  and  $\theta = 1$ . From Eq(9):

$$f(z) = K z^{K-1} e^{-z^K} \quad z \geq 0 \quad (9)$$

where the parameter  $K$  is assumed known. The cdf is now given by

$$F(z) = \begin{cases} 1 - e^{-z^K} & z \geq 0 \\ 0 & z < 0 \end{cases} \quad (24)$$

eqs(20) and (21) can be expressed in terms of ordered samples from a random sample of the standardised variate  $Z$ :

$$g(t_r) = B_1 (1 - e^{-t_r^K})^{r-1} (e^{-t_r^K})^{n-r} K t_r^{K-1} e^{-t_r^K}, \quad 0 < t_r < \infty \quad (25)$$

$$g(t_r, t_s) = B_2 (1 - e^{-t_r^K})^{r-1} (e^{-t_r^K} - e^{-t_s^K})^{s-r-1} (e^{-t_s^K})^{n-s} K^2 (t_r t_s)^{K-1} e^{-(t_r^K + t_s^K)}, \quad 0 < t_r < t_s < \infty \quad (26)$$

where  $t_r$  and  $t_s$  are ordered on  $Z$ , and  $B_1$  and  $B_2$  are constants given by

$$B_1 = \frac{n!}{(r-1)!(n-r)!} \quad (27)$$

$$B_2 = \frac{n!}{(r-1)!(s-r-1)!(n-s)!} \quad (28)$$

Finally, by applying the binomial theorem, Eqs(25) and (26) can be simplified:

$$g(t_r) = B_1 K t_r^{K-1} \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} e^{-t_r^K (n-i)} \right], 0 < t_r < \infty \quad (29)$$

$$g(t_r, t_s) = B_2 K^2 (t_r t_s)^{K-1} \left[ \sum_{i=0}^{r-1} \sum_{j=0}^{s-r-1} (-1)^{i+j} \binom{r-1}{i} \binom{s-r-1}{j} \right. \\ \left. \cdot e^{-t_r^K (s-r+i-j)} e^{-t_s^K (n-s+j+1)} \right], 0 < t_r < t_s < \infty \quad (30)$$

#### Moments of the Weibull Order Statistics

The moments of the standardised Weibull order statistics of interest in this thesis are the mean and variance of the  $r^{th}$  order statistic, and the covariance of the  $r^{th}$  and  $s^{th}$  order statistics.

The  $m^{th}$  moments about the origin of the standardized order statistics are given by



$$E(T_r^m) = \int_0^{\infty} t_r^m g(t_r) dt_r \quad (31)$$

Substitution of the expression in Eq(29) for  $g(t_r)$  results in the following:

$$E(T_r^m) = B_1 K \int_0^{\infty} t_r^m t_r^{k-1} \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} e^{-t_r^k (n-i)} \right] dt_r \quad (32)$$

When the integration is performed and the resulting expression is simplified, the expression for the  $m^{th}$  moment is reduced to:

$$E(T_r^m) = B_1 \Gamma\left(1 + \frac{m}{k}\right) \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} (n-i)^{-(1+\frac{m}{k})} \right] \quad (33)$$

The mean and variance of the Weibull order statistics are found from Eq(33) to be

$$E(T_r) = B_1 \Gamma\left(1 + \frac{1}{k}\right) \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} (n-i)^{-(1+\frac{1}{k})} \right] \quad (34)$$

$$\text{and } \text{Var}(T_r) = B_1 \Gamma\left(1 + \frac{2}{k}\right) \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} (n-i)^{-(1+\frac{2}{k})} \right] - [E(T_r)]^2 \quad (35)$$

The derivation of the covariance of the  $r^{th}$  and  $s^{th}$  order

statistic is more complicated than the above moments. The covariance is given by the expression

$$\text{Cov}(T_r, T_s) = E(T_r T_s) - E(T_r) E(T_s) \quad (36)$$

where 
$$E(T_r T_s) = \int_{-\infty}^{\infty} \int_{-\infty}^{t_s} t_r t_s g(t_r, t_s) dt_r dt_s$$

In terms of the joint distribution  $g(t_r, t_s)$  derived above, this expression becomes

$$E(T_r T_s) = B_2 K^2 \left[ \sum_{i=0}^{r-1} \sum_{j=0}^{s-r-1} (-1)^{i+j} \binom{r-1}{i} \binom{s-r-1}{j} \int_0^{\infty} \int_0^{t_s} t_r^K e^{-t_r^K (s-r+i-j)} t_s^K e^{-t_s^K (n-s+j+1)} dt_r dt_s \right] \quad (37)$$

The solution to this integral is given by Lieblein (Ref 11:332) as:

$$E(T_r T_s) = B_2 K^2 \sum_{i=0}^{r-1} \sum_{j=0}^{s-r-1} (-1)^{i+j} \binom{r-1}{i} \binom{s-r-1}{j} \psi(s-r+i-j, n-s+j+1) \quad (38)$$

where  $B_2$  is the same as the constant in Eq(26). The function

$\psi(\mu, \nu)$  is given by

$$\psi(\mu, \nu) = K^{-2} (\mu \nu)^{1+\frac{1}{K}} \Gamma(2+\frac{2}{K}) B_p(1+\frac{1}{K}, 1+\frac{1}{K}) \quad (39)$$

where

$$p = \frac{\mu}{\mu+2}$$

and  $B_p$  is the incomplete Beta function.

Values for  $E(T_r)$  ,  $Var(T_r)$  , and  $Cov(T_r, T_s)$  have been computed by Clark (Ref 2) and improved upon by Musson (Ref 13) for sample sizes of  $n=2$  to 15. The computed values were used to compute the estimators derived in the next section.

IV. Method of Least-Squares

In this section the method of least-squares estimation for the location and scale parameter of a continuous distribution as presented by Lloyd (Ref 12:20) is developed. The objective of this paper was to table coefficients for a linear, unbiased, conditional estimator for the location parameter. However, it is interesting to use the method of least-squares to first develop simultaneous estimators for the location and scale parameters, and, then to proceed to the development of conditional estimators for both parameters. It is shown that the simultaneous estimators can be obtained from the pair of conditional estimators. The significance of this result is that it is not necessary to table coefficients for both simultaneous and conditional estimators; only the coefficients for the conditional case are needed to get both the conditional and simultaneous estimators. Finally, it is shown that the estimators are unbiased; and the Gauss-Markhoff theorem (Ref 7:260) guarantees that in the class of unbiased, linear estimators, the least-squares estimator has minimum variance.

Simultaneous Estimators

Consider the three parameter Weibull density given by Eq(1) with  $K$  known. Let  $X_1, X_2, \dots, X_n$  be a random sample of size  $n$  from a Weibull population. Let  $U_1, U_2, \dots, U_n$  denote the sample values after ordering, so that  $U_1 \leq U_2 \leq \dots \leq U_n$ . (Since the density function under consideration is continuous, the equality signs may be dropped). If the substitution  $Z = (X-C)/\theta$  is made, the pdf of the random variable  $Z$  will be parameter free, as

shown in Eq(9). Now, if  $t_r = (u_r - c)/\theta$ , the values  $t_r$  are ordered samples from the distribution of  $Z$ . Before proceeding further, some definitions are made.

Let

$$\begin{aligned}\alpha_r &= E(T_r) \\ \nu_{rr} &= \text{Var}(T_r) \\ \nu_{rs} &= \text{Cov}(T_r, T_s)\end{aligned}\tag{40}$$

$$U = \begin{Bmatrix} u_1 \\ u_2 \\ \vdots \\ u_n \end{Bmatrix} \quad \text{a column vector of the ordered observations}$$

$$\vec{1} = \begin{Bmatrix} 1 \\ 1 \\ \vdots \\ 1 \end{Bmatrix} \quad \text{a column vector of ones}$$

$$\vec{\alpha} = \begin{Bmatrix} \alpha_1 \\ \alpha_2 \\ \vdots \\ \alpha_n \end{Bmatrix} \quad \text{a column vector of the expectations of the standardized order statistics}$$

$$A = (\vec{1}, \vec{\alpha}) \quad \text{an } n \times 2 \text{ matrix}$$

$$V = \begin{pmatrix} \nu_{11} & \nu_{12} & \dots & \nu_{1n} \\ \vdots & \vdots & & \vdots \\ \nu_{n1} & \nu_{n2} & \dots & \nu_{nn} \end{pmatrix} \quad \text{an } n \times n \text{ matrix of the co-} \\ \text{variances of the standardized} \\ \text{order statistics}$$

$$\Omega = V^{-1} \quad \text{the inverse of } V$$

$$\Phi = \begin{pmatrix} C \\ \Theta \end{pmatrix} \quad \text{a column vector of the parameters to} \\ \text{be estimated}$$

$$\bar{\Phi} = \begin{pmatrix} \bar{C} \\ \bar{\Theta} \end{pmatrix} \quad \text{a column vector of the estimators}$$

In terms of the notation of Eq(40), the expected values of the ordered observations are

$$E(U_r) = C + \Theta \alpha_r \quad (41)$$

This equation expresses the linear regression of  $U_r$  on  $T_r$ .

The method of least-squares applied to the estimation of the regression coefficients  $C$  and  $\Theta$  yields unbiased, linear estimators with minimum variance. In matrix notation:

$$E(U) = A \Phi \quad (42)$$

$$\text{and} \quad \text{Cov}(U) = \Theta^2 V \quad (43)$$

The least-squares normal equations have been developed in matrix notation by Guest (Ref 7:253). In order to motivate the form of the equations, consider the following argument. Let  $r_i$  be the  $i^{\text{th}}$  residual; that is,

$$r_i = u_i - \sum_{j=1}^2 \lambda_j \alpha_i^{j-1} \quad (44)$$

where  $\lambda_1 = C$  and  $\lambda_2 = \Theta$ . The least-squares principle calls for minimizing the quantity

$$\sum_{i=1}^n \omega_i r_i^2$$

where the  $\omega_i$  are weighting factors. According to the Gauss-Markhoff theorem, the weights  $\omega_i = \frac{1}{\sigma_{r_i}^2}$ , where the  $\sigma_{r_i}$  are defined by Eq(40), leads to minimum variance estimators. The generalisation of the least-squares principle and the Gauss-Markhoff theorem to a matrix equation for the residuals,

$$R = U - A\Phi \quad (45)$$

requires minimization of the expression

$$R^T \Omega R = (U - A\Phi)^T \Omega (U - A\Phi) \quad (46)$$

where the notation  $( )^T$  indicates the matrix transpose.

If the factors in Eq(46) are multiplied out, derivatives taken with respect to the estimators, and the differentials regrouped as column vectors, the resulting equation is

$$\frac{\partial}{\partial \Phi} (R^T \Omega R) = -2 A^T \Omega U + 2 A^T \Omega A \Phi \quad (47)$$

The normal equation is found by setting the partial derivative equal to zero:

$$A^T \Omega A \tilde{\Phi} = A^T \Omega U \quad (48)$$

which reduces to:

$$(\tilde{I}^T \Omega \tilde{I}) \tilde{C} + (\tilde{I}^T \Omega \tilde{\alpha}) \tilde{\theta} = \tilde{I}^T \Omega U \quad (49)$$

$$(\tilde{I}^T \Omega \tilde{\alpha}) \tilde{C} + (\tilde{\alpha}^T \Omega \tilde{\alpha}) \tilde{\theta} = \tilde{\alpha}^T \Omega U \quad (50)$$

The solutions of these equations for  $\tilde{C}$  and  $\tilde{\theta}$  are

$$\tilde{C} = \frac{(\tilde{I}^T \Omega U) D_2 - (\tilde{\alpha}^T \Omega U) B_2}{B_1 D_2 - B_2^2} \quad (51)$$

$$\text{and } \tilde{\theta} = \frac{(\tilde{\alpha}^T \Omega U) B_1 - (\tilde{I}^T \Omega U) B_2}{B_1 D_2 - B_2^2} \quad (52)$$

where  $B_1 = \tilde{I}^T \Omega \tilde{I}$ ,  $B_2 = \tilde{I}^T \Omega \tilde{\alpha}$ , and  $D_2 = \tilde{\alpha}^T \Omega \tilde{\alpha}$ . The unbiased property of the estimators is shown by taking the expected values of both sides of Eq(48):

$$(A^T \Omega A) E(\tilde{\Phi}) = A^T \Omega E(U) \quad (53)$$

But  $E(U) = A \Phi$ , so that



$$(A^T \Omega A) E(\tilde{\Phi}) = A^T \Omega A \Phi \quad (54)$$

or 
$$E(\tilde{\Phi}) = \Phi \quad (55)$$

From Eq(48) it can also be seen that

$$\tilde{\Phi} = (A^T \Omega A)^{-1} A^T \Omega U \quad (56)$$

The covariance matrix of the estimators is

$$\begin{aligned} \text{Cov}(\tilde{\Phi}) &= E[(\tilde{\Phi} - \Phi)(\tilde{\Phi} - \Phi)^T] \\ &= E\left\{[(A^T \Omega A)^{-1} A^T \Omega U - \Phi][(A^T \Omega A)^{-1} A^T \Omega U - \Phi]^T\right\} \end{aligned}$$

or 
$$\text{Cov}(\tilde{\Phi}) = [(A^T \Omega A)^{-1} A^T \Omega] \text{Cov}(U) [(A^T \Omega A)^{-1} A^T \Omega]^T \quad (57)$$

From Eq(43):

$$\text{Cov}(U) = \Theta^2 V = \Theta^2 \Omega^{-1}$$

Since  $(A^T \Omega A)$  is symmetric:

$$[(A^T \Omega A)^{-1}]^T = (A^T \Omega A)^{-1} \quad (58)$$

The covariance matrix  $V$  is also symmetric, so that

$$(A^T \Omega)^T = \Omega A \quad (59)$$

Hence,

$$\text{Cov}(\tilde{\Phi}) = (A^T \Omega A)^{-1} A^T \Omega \Theta^2 \Omega^{-1} (\Omega A) (A^T \Omega A)^{-1}$$

or 
$$\text{Cov}(\tilde{\Phi}) = (A^T \Omega A)^{-1} \Theta^2 \quad (60)$$

The elements of  $(A^T \Omega A)^{-1}$  are the coefficients in Eqs(49) and (50), and they are scalars. Let  $B_1$ ,  $B_2$ , and  $D_2$  be defined as before. Also define:

$$P = \begin{pmatrix} B_1 & B_2 \\ B_2 & D_2 \end{pmatrix} \quad (61)$$

Then,

$$\text{Cov}(\tilde{\Phi}) = \Theta^2 P^{-1}$$

The determinant of  $P$  is given by

$$|P| = B_1 D_2 - B_2^2 \quad (62)$$

Finally, Eq(60) can be rewritten:

$$\text{Cov}(\tilde{\Phi}) = \frac{\Theta^2}{|P|} \begin{pmatrix} D_2 & -B_2 \\ -B_2 & B_1 \end{pmatrix} \quad (63)$$

Thus, the variances and covariances of the estimators are known up to the factor  $\Theta^2$ .

#### Conditional Estimators

If either  $C$  or  $\Theta$  is known, the normal equations for the

estimators simplify somewhat. In the following discussion the symbol  $\bar{c}/\theta$  denotes the conditional estimator for the location parameter when the scale parameter is known; similarly,  $\bar{\theta}/c$  denotes the scale estimator when the location parameter is known.

From Eq(47) it can be seen that

$$\frac{d}{dc}(R^T \Omega R) = -2(\bar{I}^T \Omega U) + 2[(\bar{I}^T \Omega \bar{I})c + (\bar{I}^T \Omega \bar{\alpha})\theta] \quad (64)$$

Hence the normal equation for  $\bar{c}/\theta$  is:

$$(\bar{I}^T \Omega \bar{I})\bar{c}/\theta + (\bar{I}^T \Omega \bar{\alpha})\theta = \bar{I}^T \Omega U \quad (65)$$

The expression for the conditional location estimator is, then:

$$\bar{c}/\theta = \frac{\bar{I}^T \Omega U - \theta(\bar{I}^T \Omega \bar{\alpha})}{\bar{I}^T \Omega \bar{I}} \quad (66)$$

or 
$$\bar{c}/\theta = \frac{\bar{I}^T \Omega U - \theta B_2}{B_1} \quad (67)$$

where  $B_1$  and  $B_2$  are defined as in Eq(52).

The expected value of  $\bar{c}/\theta$  is

$$E(\bar{c}/\theta) = \frac{\bar{I}^T \Omega E(U) - \theta B_2}{B_1} \quad (68)$$

But 
$$E(U) = A\Phi = \bar{I}c + \theta\bar{\alpha} \quad (69)$$

Hence, 
$$E(\bar{C}/\theta) = \frac{(\hat{I}^T \Omega \hat{I})C + (\hat{I}^T \Omega \hat{\alpha})\theta - \theta B_2}{B_1} \quad (70)$$

Since  $B_2 = \hat{I}^T \Omega \hat{\alpha}$ , then

$$E(\bar{C}/\theta) = C \quad (71)$$

and the estimator  $\bar{C}/\theta$  is an unbiased estimator for  $C$ .

The expression for the variance of  $\bar{C}/\theta$  is

$$\text{Var}(\bar{C}/\theta) = E[(\bar{C}/\theta - C)(\bar{C}/\theta - C)^T] \quad (72)$$

The result of carrying out the indicated operation in Eq(72) is

$$\text{Var}(\bar{C}/\theta) = \theta^2 (\hat{I}^T \Omega \hat{I})^{-1} = \frac{\theta^2}{B_1} \quad (73)$$

If the derivative of  $R^T \Omega R$  with respect to  $\theta$  is set equal to zero, the resulting expression is the normal equation for  $\bar{\theta}/C$ :

$$(\hat{\alpha}^T \Omega \hat{I})C + (\hat{\alpha}^T \Omega \hat{\alpha})\bar{\theta}/C = \hat{\alpha}^T \Omega U \quad (74)$$

and 
$$\bar{\theta}/C = \frac{\hat{\alpha}^T \Omega (U - \hat{I}C)}{D_2} \quad (75)$$

The expected value of  $\bar{\theta}/C$  is

$$\begin{aligned} E(\bar{\theta}/C) &= \frac{\hat{\alpha}^T \Omega E(U) - B_2 C}{D_2} \\ &= \frac{(\hat{\alpha}^T \Omega \hat{I})C + (\hat{\alpha}^T \Omega \hat{\alpha})\theta - B_2 C}{D_2} \end{aligned}$$

$$\text{or} \quad E(\bar{\theta}/C) = \theta \quad (76)$$

The result of evaluating the expression for the variance of  $\bar{\theta}/C$  is

$$\text{Var}(\bar{\theta}/C) = \theta^2 (\bar{\alpha}' \Omega \bar{\alpha})^{-1} = \frac{\theta^2}{D_2} \quad (77)$$

#### Simultaneous Estimators from the Conditional Estimators

The similarity between Eqs(49) and (50) and Eqs(65) and (74) suggests that the expressions for the conditional estimators could be used to determine the simultaneous estimators. Note that although the expressions are similar, they are not quite the same, since  $\bar{C} \neq \bar{C}/\theta$  and  $\bar{\theta} \neq \bar{\theta}/C$ . Consider an iteration process where the known values of  $\theta$  and  $C$  are replaced by  $\bar{\theta}/C$  and  $\bar{C}/\theta$  respectively in Eqs(65) and (74). If the iteration is allowed to go to completion and if the limiting values of the iterated estimators are denoted  $\bar{C}/\bar{\theta}$  and  $\bar{\theta}/\bar{C}$ , then Eqs(65) and (74) become, respectively:

$$(\bar{I}' \Omega \bar{I}) \bar{C}/\bar{\theta} + (\bar{I}' \Omega \bar{\alpha}) \bar{\theta}/\bar{C} = \bar{I}' \Omega U \quad (78)$$

$$(\bar{I}' \Omega \bar{\alpha}) \bar{C}/\bar{\theta} + (\bar{\alpha}' \Omega \bar{\alpha}) \bar{\theta}/\bar{C} = \bar{\alpha}' \Omega U \quad (79)$$

Thus, the limiting estimators are identical with the simultaneous estimators--  $\bar{C}/\bar{\theta} \equiv \bar{C}$  and  $\bar{\theta}/\bar{C} \equiv \bar{\theta}$ .

The expressions for obtaining the simultaneous estimators with the coefficients for the conditional estimators are derived at the end of the discussion on the use of the tables in the next section.

V. Tabulation of the Estimation Coefficients

The method of tabulating the coefficients for estimation and the use of the tables are discussed in this section.

Method of Tabulation

The expressions developed in the last section were derived using all  $n$  of the ordered observations in the sample. However, it can be seen that the equations apply equally well if the elements of the matrices correspond to the smallest  $m$  out of  $n$  observations ( $m \leq n$ ) or some  $\ell$  observations selected from the  $m$  ( $\ell \leq m \leq n$ ). Further, the expressions for the estimators in Eqs(68) and (79) can be separated into a set of coefficients which depend only on the means, variances, and covariances of the standardized order statistics, and the vector of ordered observations. Thus, the conditional estimator for  $C$  has the form

$$\bar{C}/\theta = \sum_{\ell} \eta_i u_i - \theta A \quad (80)$$

where the  $\eta_i$  are the elements of the matrix  $(\bar{I}^T \Omega)/B_1$ ,  $A = \frac{B_2}{B_1}$ , and where the summation extends over the  $\ell$  selected observations. Similarly, the conditional estimator for  $\theta$  has the form

$$\bar{\theta}/C = \sum_{\ell} \lambda_i (u_i - C) \quad (81)$$

where the  $\lambda_i$  are the elements of the matrix  $(\bar{\alpha}^T \Omega)/D_2$ . Again the summation extends over the  $\ell$  selected values.

The expressions for the constants  $\eta_i$ ,  $\lambda_i$ , and  $A$  in Eqs(80)

and (81) were programmed for the Wright-Patterson IBM 7094 digital computer. The constants were calculated for values of  $n = 2$  to 13, values of  $m = 1$  to  $n$ , and values of  $l = 1$  to  $m$ . Calculations were repeated for eleven values of the shape parameter,  $K$  : 0.5(0.25)2.0(0.5)4.0. Thus the table contains  $n$ -order,  $m$ -order and  $l$ -order statistic estimation coefficients for each value of  $K$ .

For each value of  $l$ , only the coefficients for the most efficient estimators were tabulated. Efficiency as used here is defined by

$$\text{Eff}(\tilde{c}) = \frac{\text{variance of } m\text{-order estimator}}{\text{variance of } l\text{-order estimator}}$$

Note from Eqs(73) and (77) that the efficiency--a ratio of the variances of the estimators--is independent of the value of  $\theta$ , even though the variances are functions of  $\theta$ .

#### Use of the Tables

Format of the Tables. The coefficients for estimators of  $\bar{c}/\theta$  and  $\bar{\theta}/c$  are tabulated in the appendixes. The tables are arranged according to the value of the shape parameter,  $K$ . The first three columns specify the complete sample size,  $n$ , the censored sample size,  $m$ , and the number of observations to be used for the estimator,  $l$ . As pointed out earlier, the coefficients tabled for a particular value of  $l$  are those which give the estimator with the highest efficiency relative to an estimator based on all  $m$  observations. The entries in the columns labeled I, columns four and six, determine which of the ordered observations are to be multiplied by the coefficients. Columns five and seven contain the estimation co-

efficients for estimators of  $\bar{C}/\theta$  and  $\bar{\theta}/C$  respectively. Below each set of coefficients, there are four quantities: BIAS CORR is the constant  $A$  in Eq(80); the entries VAR COEFF are variance coefficients, that is  $\text{Var}(\bar{C}/\theta)/\theta^2$  and  $\text{Var}(\bar{\theta}/C)/\theta^2$ , of the estimators; the EFFICIENCY is the relative efficiency of the  $\ell$ -order estimator to the  $m$ -order estimator. When  $\ell = m$ , the efficiency of the  $m$ -order estimator relative to the  $n$ -order estimator is given in the entry  $\text{EFF}(M/N)$ .

Computational Procedure. The procedure for computing estimators for  $\bar{C}/\theta$  and  $\bar{\theta}/C$  is as follows:

- (1) Find the section of the table which applies to the known value of shape parameter,  $K$ . The shape parameter is specified at the top of each page.
- (2) Find the entry corresponding to the specific values of complete sample size,  $n$ , censored sample size,  $m$ , and number of observations selected,  $\ell$ .
- (3) To estimate  $C$ , multiply the coefficient in column five by the observed order statistics corresponding to the number in column four. Repeat the process for all  $\ell$  coefficients, and add the results. This result is a biased estimate for  $C$ . Now multiply the bias correction by the known value of  $\theta$  and subtract the result from the biased estimate. The resulting value is the unbiased, linear estimator for the location parameter,  $C$ .
- (4) To estimate  $\theta$ , multiply the coefficient in column 7 by the quantity  $(U_i - C)$ , where  $C$  is the known location parameter, and  $U_i$  is the ordered observation correspond-



ing to the number in column 6. Repeat this procedure for all  $\ell$  coefficients and add the results. The sum is the unbiased, linear estimator of the scale parameter,  $\Theta$ .

- (5) The variances and efficiencies of the estimators are given immediately after the coefficients.

### Sample Calculation

The following calculation illustrates the use of the tables.

Suppose it is desired to find an estimator for  $C$  when  $K=2.0$ ,  $\Theta=5.0$ ,  $n=5$ ,  $m=4$  and  $\ell=3$ .

The appropriate entry from the table is:

5	4	3	1	0.586689	2	0.224559
			2	0.204547	3	0.217390
			4	0.208764	4	0.615839
		BIAS CORR		0.589966		
		VAR COEFF		0.035064		0.064732
		EFFICIENCY		99.21		99.54

For the purposes of illustration, suppose the ordered observations are

$u_1 = 2.$ ,  $u_2 = 5.$ , and  $u_4 = 10.$ . Then the estimator,  $\bar{C}/\Theta$ , is

$$\begin{aligned}\bar{C}/\Theta &= 2.(0.586689) + 5.(0.204547) \\ &\quad + 10.(0.208764) - 5.(0.589966) \\ &= 1.333923\end{aligned}$$

The variance of the estimator is

$$\text{Var}(\bar{C}/\Theta) = (5)^2(0.035064) = 0.876000$$

The efficiency relative to the  $m$ -order estimator is read directly

99.21 %.

Simultaneous Estimators

It was shown in Section IV that simultaneous estimators could be computed with the coefficients for the pair of conditional estimators. Note that in the proof given at that time it was assumed that both  $\bar{C}/\bar{\Theta}$  and  $\bar{\Theta}/C$  were based on the same ordered observations. Thus the expressions derived below apply to  $\ell$ -order estimators only when the conditional estimators for  $C$  and  $\Theta$  are based on the same ordered observations. This difficulty does not arise in the  $m$ - or  $n$ -order-statistic estimators.

If, in Eq(80), the value  $\bar{\Theta}/C$  is substituted for the known value of  $\Theta$ , and in Eq(81)  $C$  is replaced by  $\bar{C}/\bar{\Theta}$ , the estimators become:

$$\bar{C}/\bar{\Theta} = \sum_{\ell} \eta_i u_i - A(\bar{\Theta}/C) \quad (82)$$

and 
$$\bar{\Theta}/C = \sum_{\ell} \lambda_i (u_i - \bar{C}/\bar{\Theta}) \quad (83)$$

where the  $\eta_i$  and  $\lambda_i$  are the tabled coefficients for conditional estimation of  $C$  and  $\Theta$ , respectively. If the iteration process implied here is allowed to go to completion, Eq(82) becomes:

$$\bar{C}/\bar{\Theta} = \sum_{\ell} \eta_i u_i - A \left( \sum_{\ell} \lambda_i u_i - \sum_{\ell} \lambda_i \bar{C}/\bar{\Theta} \right)$$

or 
$$\tilde{C} = \sum_{\ell} \eta_i u_i - A \sum_{\ell} \lambda_i u_i + A \tilde{C} \sum_{\ell} \lambda_i \quad (84) \quad \checkmark$$

since it was shown in Section IV that  $\tilde{C}/\tilde{\Theta} \equiv \tilde{C}$ . Eq(83) can now be rewritten:

$$\tilde{\Theta} = \sum_i \lambda_i u_i - \tilde{C} \sum_i \lambda_i \quad (85)$$

Now, let  $k_1 = \sum_i \eta_i u_i$ ,  $k_2 = \sum_i \lambda_i u_i$ , and  $k_3 = \sum_i \lambda_i$ . Then

$$\tilde{C} = k_1 - A k_2 + A k_3 \tilde{C}$$

$$\text{or} \quad \tilde{C} = \frac{k_1 - A k_2}{1 - A k_3} \quad (86)$$

The expression for  $\tilde{\Theta}$  becomes:

$$\tilde{\Theta} = k_2 - k_3 \left( \frac{k_1 - A k_2}{1 - A k_3} \right)$$

$$\text{or} \quad \tilde{\Theta} = \frac{k_2 - k_1 k_3}{1 - A k_3} \quad (87)$$

In terms of the coefficients for the conditional estimators and the ordered observations, the simultaneous estimators can now be written:

$$\tilde{C} = \frac{\sum_i \eta_i u_i - A \sum_i \lambda_i u_i}{1 - A \sum_i \lambda_i} \quad (88)$$

$$\tilde{\Theta} = \frac{\sum_i \lambda_i u_i - (\sum_i \lambda_i) \sum_i \eta_i u_i}{1 - A \sum_i \lambda_i} \quad (89)$$

From Eq(63) the variances of  $\tilde{c}$  and  $\tilde{\theta}$  are

$$\text{Var}(\tilde{c}) = \frac{\theta^2 D_2}{B_1 D_2 - B_2^2}$$

$$\text{Var}(\tilde{\theta}) = \frac{\theta^2 B_1}{B_1 D_2 - B_2^2}$$

Also, from Eqs(73) and (77):

$$\text{Var}(\tilde{c}|\theta) = \frac{\theta^2}{B_1} \quad (73)$$

$$\text{Var}(\tilde{\theta}|c) = \frac{\theta^2}{D_2} \quad (77)$$

Finally,  $A = B_2/B_1$ .

With the aid of these relationships, the variances of the simultaneous estimators can be expressed in terms of the variances of the conditional estimators. The resulting expressions are:

$$\text{Var}(\tilde{c}) = \frac{\text{Var}^2(\tilde{c}|\theta)}{\text{Var}(\tilde{c}|\theta) - A^2 \text{Var}(\tilde{\theta}|c)} \quad (90)$$

$$\text{Var}(\tilde{\theta}) = \frac{\text{Var}(\tilde{c}|\theta) \text{Var}(\tilde{\theta}|c)}{\text{Var}(\tilde{c}|\theta) - A^2 \text{Var}(\tilde{\theta}|c)} \quad (91)$$

#### Accuracy of the Tables

The accuracy of the tables was checked by comparing coefficients for simultaneous estimators derived from the tabled conditional estimation coefficients, with the coefficients obtained for simultaneous estimators by Musson (Ref 13). No discrepancies appeared

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As a further check, the coefficients for the conditional estimation of  $\Theta$  were compared with those tabled by Clark (Ref 2). The entries were identical with Clark's in every case checked. The accuracy of those calculations is discussed briefly by Musson (Ref 13:15).

VI. Summary and Conclusions

In this section, the paper is summarized briefly, and some conclusions are drawn about the value of the estimators.

Summary

The purpose of this thesis was to tabulate coefficients for a conditional, linear, unbiased estimator of the location parameter of the Weibull probability density function by the use of selected order statistics.

In the introduction some background on the use of order statistics and on the Weibull distribution was presented. The assumptions and limitations of the method of estimation were discussed. This information was followed by a brief treatment of the Weibull probability density function and some of the important moments of that density function.

Expressions for the distributions of the Weibull order statistics, and for the expected values, variance, and covariances of standardized Weibull order statistics were derived in detail. In Section IV, the method of least-squares linear, unbiased estimation was developed in a general form. Expressions were derived for both simultaneous and conditional estimators of  $C$  and  $\Theta$ . Throughout the discussion it was assumed that the shape parameter,  $K$  was known. It was shown that knowledge of the coefficients of estimation for conditional estimators contained sufficient information for computing both conditional and simultaneous estimators.

The method of calculating the coefficients and the procedure for

using the tables in the appendixes were described in full detail. A brief statement on the accuracy of the tabulated coefficients was made.

### Conclusions

The method of estimation presented here leads to a fairly simple and accurate method of calculating estimates of the location and scale parameters for the Weibull distributions for sample sizes up to  $n = 13$ . The linearity of the estimators, along with the table of coefficients, makes the computation of estimators amenable to both manual and digital computer techniques. However, for sample sizes much larger than  $n = 13$ , difficulty is encountered in two areas. First, the accurate calculation of the covariances of the standardized order statistics rapidly increases in difficulty with increasing  $n$ . And, second, the calculation of the estimation coefficients becomes increasingly more time consuming because of both the number of cases to be considered and the necessity of inverting large matrices numerically.

Finally, the method presented in Section IV was very general, and applies to many other continuous probability distributions in addition to the Weibull distribution.

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GAW/MATH/68-1

APPENDIX A

Tables  
for  
Sample Size 2 to 10

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	1.032258	1	0.578125
			2	-0.032258	2	0.203125
				BIAS CORR		
				0.403226		
				VAR COEFF		2.359375
				1.217742		
2	2	1		EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		100.00
			1	1.000000	2	0.285714
				0.500000		
2	1	1		BIAS CORR		
				0.500000		
				VAR COEFF		2.795918
				1.250000		
				EFFICIENCY		84.34
				97.42		
3	3	3	1	1.000000	1	2.000000
				0.500000		
				VAR COEFF		5.000000
				1.250000		
				EFFICIENCY		100.00
				100.00		47.19
3	3	1		EFF(M/N)		97.42
			1	1.062309	1	0.558988
			2	-0.057197	2	0.247734
			3	-0.005112	3	0.118907
				BIAS CORR		
3	3	2		0.151554		
				0.236168		1.520335
				VAR COEFF		100.00
				100.00		100.00
				EFFICIENCY		100.00
				100.00		
3	3	1	1	1.065844	2	0.391310
			2	-0.065844	3	0.124295
				BIAS CORR		
				0.167352		
				VAR COEFF		1.582457
				0.237159		96.07
3	3	2		EFFICIENCY		99.58
			1	1.000000	3	0.211765
				0.222222		
				VAR COEFF		2.040277
				0.246914		74.52
3	2	2		EFFICIENCY		95.5
			1	1.065844	1	0.894578
			2	-0.065844	2	0.759036
				BIAS CORR		
				0.167352		
3	2	2		VAR COEFF		2.343374
				0.237159		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		64.88
3	2	1	1	1.000000	2	0.947368
				BIAS CORR		
				0.222222		
				VAR COEFF		2.506925
				0.246914		93.48
				EFFICIENCY		
				96.05		
3	1	1	1	1.000000	1	4.500000
				BIAS CORR		
				0.222222		
				VAR COEFF		5.000000
				0.246914		100.00
				EFFICIENCY		100.00
				EFF(M/N)		30.41
4	4	4	1	1.079024	1	0.538678
			2	-0.065972	2	0.317218
			3	-0.011709	3	0.188085
			4	-0.001344	4	0.081410
				BIAS CORR		
				0.074527		
				VAR COEFF		1.115097
				0.073849		100.00
				EFFICIENCY		100.00
				EFF(M/N)		100.00
4	4	3	1	1.080014	2	0.422871
			2	-0.066204	3	0.191614
			3	-0.013807	4	0.082695
				BIAS CORR		
				0.078924		
				VAR COEFF		1.131494
				0.073928		98.55
				EFFICIENCY		
				99.89		
4	4	2	1	1.087097	3	0.303385
			2	-0.087097	4	0.089423
				BIAS CORR		
				0.091129		
				VAR COEFF		1.214765
				0.074496		91.80
				EFFICIENCY		
				99.13		
4	4	1	1	1.000000	4	0.173494
				BIAS CORR		
				0.125000		
				VAR COEFF		1.651566
				0.078125		67.52
				EFFICIENCY		
				94.53		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	1.080014	1	0.742880
			2	-0.066204	2	0.442504
			3	-0.013809	3	0.425578
		2		BIAS CORR		0.078924
				VAR COEFF		0.073928
				EFFICIENCY		100.00
				EFF(M/N)		99.89
4	3	2	1	1.087097	2	0.591828
			2	-0.087097	3	0.435673
				BIAS CORR		0.071129
		1		VAR COEFF		0.074496
				EFFICIENCY		99.24
						1.540373
						97.96
4	3	1	1	1.000000	3	0.626087
				BIAS CORR		0.125000
				VAR COEFF		0.078125
				EFFICIENCY		94.63
						1.708960
						88.30
4	2	2	1	1.087097	1	1.208861
			2	-0.087097	2	1.651399
				BIAS CORR		0.091129
				VAR COEFF		0.074496
				EFFICIENCY		100.00
				EFF(M/N)		99.13
						47.68
4	2	1	1	1.000000	2	1.945946
				BIAS CORR		0.125000
				VAR COEFF		0.078125
				EFFICIENCY		95.35
						2.422936
						96.52
4	1	1	1	1.000000	1	8.000000
				BIAS CORR		0.125000
				VAR COEFF		0.078125
				EFFICIENCY		100.00
				EFF(M/N)		94.53
						22.30
5	5	5	1	1.089115	1	0.522047
			2	-0.069831	2	0.322968
			3	-0.015322	3	0.209647
			4	-0.003491	4	0.132812

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			5	-0.000470	5	0.060808
			BIAS CORR	0.042650		
			VAR COEFF	0.030006		0.878133
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	1.089464	2	0.437202
			2	-0.069896	3	0.211780
			3	-0.015371	4	0.133872
			4	-0.004197	5	0.061241
			BIAS CORR	0.044266		
			VAR COEFF	0.030017		0.884066
			EFFICIENCY	99.96		99.33
5	5		1	1.091548	2	0.674105
			2	-0.070283	4	0.177118
			3	-0.021265	5	0.062987
			BIAS CORR	0.048297		
			VAR COEFF	0.030082		0.906449
			EFFICIENCY	99.75		96.88
5	5	2	1	1.101186	3	0.547713
			2	-0.101186	5	0.081908
			BIAS CORR	0.057233		
			VAR COEFF	0.030381		0.974832
			EFFICIENCY	98.77		90.08
5	5	1	1	1.000000	4	0.473809
			BIAS CORR	0.080000		
			VAR COEFF	0.032000		1.318297
			EFFICIENCY	93.77		66.61
5	4	4	1	1.089464	1	0.665594
			2	-0.069896	2	0.413611
			3	-0.015371	3	0.271344
			4	-0.004197	4	0.282456
			BIAS CORR	0.044266		
			VAR COEFF	0.030017		1.107347
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.96		79.30

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	1.091548	2	0.560493
			2	-0.070283	3	0.274623
			3	-0.021265	4	0.285171
		BIAS CORR		0.048297		
		VAR COEFF		0.030082		1.117010
		EFFICIENCY		99.78		99.13
5	4	2	1	1.101186	2	0.874921
			2	-0.101186	4	0.347373
		BIAS CORR		0.057233		
		VAR COEFF		0.030381		1.154971
		EFFICIENCY		98.80		95.88
5	4	1	1	1.000000	4	0.473909
		BIAS CORR		0.080000		
		VAR COEFF		0.032000		1.318297
		EFFICIENCY		93.80		84.00
5	3	3	1	1.091548	1	0.928982
			2	-0.070283	2	0.583764
			3	-0.021265	3	0.903788
		BIAS CORR		0.048297		
		VAR COEFF		0.030082		1.505137
		EFFICIENCY		100.00		100.00
		EFF(M/N)		99.75		58.34
5	3	2	1	1.101186	2	0.791845
			2	-0.101186	3	0.916909
		BIAS CORR		0.057233		
		VAR COEFF		0.030381		1.524031
		EFFICIENCY		99.01		98.76
5	3	1	1	1.000000	3	1.208865
		BIAS CORR		0.080000		
		VAR COEFF		0.032000		1.611606
		EFFICIENCY		94.00		93.39
5	2	2	1	1.101186	1	1.522373
			2	-0.101186	2	2.879378
		BIAS CORR		0.057233		
		VAR COEFF		0.030381		2.336576

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
5	2	1		EFFICIENCY		100.00
				EFF(M/N)		37.58
			1	1.000000	2	3.278689
				BIAS CORR		
5	1	1		VAR CCEFF		2.387799
				EFFICIENCY		97.85
			1	1.000000	1	12.500000
				BIAS CORR		
6	6	6		VAR CCEFF		5.000000
				EFFICIENCY		100.00
				EFF(M/N)		17.56
			1	1.095744	1	0.508664
6	6	5	2	-0.071819	2	0.324110
			3	-0.017497	3	0.219713
			4	-0.004919	4	0.151653
			5	-0.001311	5	0.100524
			6	-0.000199	6	0.047959
				BIAS CORR		
				VAR CCEFF		0.723250
				EFFICIENCY		100.00
				EFF(M/N)		100.00
			1	1.095889	2	0.444219
			2	-0.071842	3	0.221338
			3	-0.017512	4	0.152378
6	6	4	4	-0.004935	5	0.100934
			5	-0.001600	6	0.048179
				BIAS CORR		
				VAR CCEFF		0.725859
				EFFICIENCY		99.64
			1	1.096653	2	0.656964
			2	-0.071964	4	0.207077
			3	-0.017591	5	0.102241
			4	-0.007098	6	0.048716
				BIAS CORR		
				VAR CCEFF		0.733349
				EFFICIENCY		98.62



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
6	6	3	1	1.099608	2	0.535170
			2	-0.072434	5	0.135515
			3	-0.027174	6	0.050075
		BIAS CORR		0.032568		
				0.014443		0.751812
				99.61		96.20
6	6	2	1	1.111111	4	0.444408
			2	-0.111111	6	0.065606
				0.039259		
		BIAS CORR		0.014609		0.812935
				98.48		88.97
6	6	1	1	1.000000	5	0.385522
				0.055556		
				0.015432		1.086407
		BIAS CORR		93.23		66.57
6	5	5	1	1.095889	1	0.618059
			2	-0.071842	2	0.394750
			3	-0.017512	3	0.269007
			4	-0.004935	4	0.187262
			5	-0.001600	5	0.205979
		BIAS CORR		0.027619		
				0.014389		0.872648
				100.00		100.00
		EFFICIENCY		99.99		82.88
6	5	4	1	1.096653	2	0.541130
			2	-0.071964	3	0.270964
			3	-0.017591	4	0.186305
			4	-0.007098	5	0.206959
				0.029272		
		BIAS CORR		0.014400		0.876503
				99.92		99.56
		EFFICIENCY				
6	5	3	1	1.099608	2	0.803554
			2	-0.072434	4	0.255928
			3	-0.027174	5	0.210013
		BIAS CORR		0.032568		

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.887757 98.30
6	5	2	1	1.111111	2	0.662000
			2	-0.111111	5	0.255220
				BIAS CORR		
				VAR CCEFF		0.916023
				EFFICIENCY		95.26
6	5	1	1	1.000000	5	0.385522
				BIAS CORR		
				VAR CCEFF		1.086407
				EFFICIENCY		80.32
6	4	4	1	1.096653	1	0.794888
			2	-0.071964	2	0.510409
			3	-0.017591	3	0.351202
			4	-0.007098	4	0.586620
				BIAS CORR		
				VAR CCEFF		1.104449
				EFFICIENCY		100.00
				EFF(M/N)		65.49
6	4	3	1	1.099608	2	0.699635
			2	-0.072434	3	0.354225
			3	-0.027174	4	0.592424
				BIAS CORR		
				VAR CCEFF		1.110935
				EFFICIENCY		99.43
6	4	2	1	1.111111	2	1.047329
			2	-0.111111	4	0.689059
				BIAS CORR		
				VAR CCEFF		1.130155
				EFFICIENCY		97.73
6	4	1	1	1.000000	4	0.874211
				BIAS CORR		
				VAR CCEFF		1.219665
				EFFICIENCY		90.55

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	1.099608	1	1.115753
			2	-0.072434	2	0.723582
			3	-0.027174	3	1.550643
		BIAS CORR		0.032568		
				0.014443		1.503331
				100.00		100.00
				99.61		48.11
6	3	2	1	1.111111	2	0.991825
			2	-0.111111	3	1.565806
				0.039259		
		BIAS CORR		0.014609		1.515946
				98.86		99.17
6	3	1	1	1.000000	2	1.958651
				0.055556		
				0.015432		1.565697
		BIAS CORR		93.59		95.77
6	2	2	1	1.111111	1	1.835526
			2	-0.111111	2	4.440790
				0.039259		
		BIAS CORR		0.014609		2.335526
				100.00		100.00
				98.48		30.97
6	2	1	1	1.000000	2	4.945055
				0.055556		
				0.015432		2.369883
		BIAS CORR		94.67		98.55
6	1	1	1	1.000000	1	18.000000
				0.055556		
				0.015432		5.000000
		BIAS CORR		100.00		100.00
				93.23		14.46
7	7	7	1	1.100389	1	0.497755
			2	-0.072956	2	0.323664
			3	-0.018923	3	0.225526
			4	-0.005904	4	0.162018

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			5	-0.001936	5	0.116400
			6	-0.000575	6	0.079758
			7	-0.000055	7	0.039356
			BIAS CORR	0.018177		
			VAR CCEFF	0.007732		0.614334
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
7	7	6	1	1.100457	2	0.447646
			2	-0.072966	3	0.226560
			3	-0.018929	4	0.162536
			4	-0.005910	5	0.116703
			5	-0.001942	6	0.079945
			6	-0.000711	7	0.039443
			BIAS CORR	0.018531		
			VAR CCEFF	0.007732		0.615645
			EFFICIENCY	99.99		99.79
7	7	5	1	1.100783	2	0.647660
			2	-0.073012	4	0.225126
			3	-0.018957	5	0.117543
			4	-0.005935	6	0.080427
			5	-0.002880	7	0.039658
			BIAS CORR	0.019312		
			VAR CCEFF	0.007735		0.618816
			EFFICIENCY	99.96		99.28
7	7	4	1	1.101703	3	0.537890
			2	-0.073143	5	0.160390
			3	-0.024186	6	0.081564
			5	-0.004375	7	0.040157
			BIAS CORR	0.019653		
			VAR CCEFF	0.007742		0.626140
			EFFICIENCY	99.87		98.11
7	7	3	1	1.104839	4	0.447663
			2	-0.089912	6	0.109009
			4	-0.014927	7	0.041523
			BIAS CORR	0.021289		
			VAR CCEFF	0.007766		0.645635
			EFFICIENCY	99.56		95.15

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
7	7	2	1	1.118453	5	0.318420
			2	-0.118453	7	0.051787
			BIAS CORR	0.028595		
			VAR COEFF	0.007869		0.702090
			EFFICIENCY	98.25		87.50
7	7	1	1	1.000000	6	0.327777
			BIAS CORR	0.040816		
			VAR COEFF	0.008330		0.932542
			EFFICIENCY	92.87		65.88
7	6	6	1	1.100457	1	0.585528
			2	-0.072966	2	0.381745
			3	-0.018929	3	0.266231
			4	-0.005910	4	0.192027
			5	-0.001942	5	0.135169
			6	-0.000711	6	0.155479
			BIAS CORR	0.018531		
			VAR COEFF	0.007732		0.715217
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.99		85.42
7	6	5	1	1.100783	2	0.527295
			2	-0.073012	3	0.267552
			3	-0.018957	4	0.192715
			4	-0.005935	5	0.135586
			5	-0.002880	6	0.155906
			BIAS CORR	0.019312		
			VAR COEFF	0.007735		0.721031
			EFFICIENCY	99.97		99.75
7	6	4	1	1.101703	2	0.764245
			2	-0.073143	4	0.266856
			3	-0.024186	5	0.140724
			4	-0.004375	6	0.160990
			BIAS CORR	0.019653		
			VAR COEFF	0.007742		0.725458
7	6	3	1	1.104839	2	0.637519
			EFFICIENCY	99.88		99.14

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			2	-0.089912	2	0.192035
			4	-0.014927	6	0.163543
			BIAS CORR	0.021289		
			VAR CCEFF	0.007766		0.735740
			EFFICIENCY	99.57		97.75
7	6	2	1	1.118453	4	0.536275
			2	-0.118453	6	0.200009
			BIAS CORR	0.028535		
			VAR CCEFF	0.007869		0.763585
			EFFICIENCY	98.26		94.19
7	6	1	1	1.000000	6	0.327977
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		0.932542
			EFFICIENCY	92.83		77.12
7	5	5	1	1.100783	1	0.716133
			2	-0.073012	2	0.467632
			3	-0.016957	3	0.328106
			4	-0.005935	4	0.238694
			5	-0.002880	5	0.422801
			BIAS CORR	0.019317		
			VAR CCEFF	0.007735		0.870458
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.96		70.58
7	5	4	1	1.101703	2	0.646649
			2	-0.073143	3	0.329926
			3	-0.024186	4	0.239688
			5	-0.004375	5	0.424241
			BIAS CORR	0.014653		
			VAR CCEFF	0.007742		0.873174
			EFFICIENCY	99.91		99.69
7	5	3	1	1.104839	2	0.940301
			2	-0.089912	4	0.331701
			4	-0.014927	5	0.428032
			BIAS CORR	0.021289		
			VAR CCEFF	0.007766		0.875916
			EFFICIENCY	99.60		98.93

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	1.118453	2	0.790023
			2	-0.118453	5	0.497837
			BIAS CORR	0.028595		
			VAR CCEFF	0.007869		0.895742
			EFFICIENCY	98.29		97.18
7	5	1	1	1.000000	5	0.686130
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		0.985629
			EFFICIENCY	92.86		87.56
7	4	4	1	1.101902	1	0.925007
			2	-0.073171	2	0.607161
			3	-0.019052	3	0.429594
			4	-0.009679	4	0.997036
			BIAS CORR	0.020771		
			VAR CCEFF	0.007743		1.103008
			EFFICIENCY	100.00		100.00
			EFF (M/N)	49.85		55.70
7	4	1	1	1.104839	2	0.835236
			2	-0.089912	3	0.432394
			4	-0.014927	4	1.001661
			BIAS CORR	0.021289		
			VAR CCEFF	0.007766		1.107543
			EFFICIENCY	99.71		99.59
7	4	2	1	1.118453	2	1.227422
			2	-0.118453	4	1.131535
			BIAS CORR	0.028595		
			VAR CCEFF	0.007869		1.119156
			EFFICIENCY	98.40		98.56
7	4	1	1	1.000000	4	1.374453
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		1.176322
			EFFICIENCY	92.96		93.77
7	3	3	1	1.105541	1	1.302809
			2	-0.073688	2	0.862659

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
7	3	2	3	-0.031853	2	2.65175
			BIAS CORR	0.023435		
			VAR CCEFF	0.007771		1.502340
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.49		60.89
			1	1.118453	2	1.191914
			2	-0.118453	3	2.381795
7	3	1	BIAS CORR	0.028595		
			VAR CCEFF	0.007869		1.511353
			EFFICIENCY	98.75		99.40
			1	1.000000	3	2.875212
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		1.547753
			EFFICIENCY	93.29		97.07
7	2	2	1	1.118453	1	2.148482
			2	-0.118453	2	6.335863
			BIAS CORR	0.028595		
			VAR CCEFF	0.007869		2.334915
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.25		26.31
			1	1.000000	2	6.944882
7	2	1	BIAS CORR	0.040816		
			VAR CCEFF	0.008330		2.359539
			EFFICIENCY	94.47		98.96
			1	1.000000	1	24.500000
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		5.000000
			EFFICIENCY	100.00		100.00
8	8	8	EFF(M/N)	92.82		12.29
			1	1.103807	1	0.488708
			2	-0.073655	2	0.322529
			3	-0.019920	3	0.228822
			4	-0.006617	4	0.168492
			5	-0.002405	5	0.125837
			6	-0.000877	6	0.093141



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
8	8	7	7	-0.000283	7	0.065467
			8	-0.000050	8	0.033177
			BIAS CORR	0.012916		
			VAR COEFF	0.004517		0.533674
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
8	8	6	1	1.103842	2	0.449164
			2	-0.073660	3	0.229619
			3	-0.019922	4	0.168883
			4	-0.006619	5	0.126066
			5	-0.002407	6	0.093289
			6	-0.000880	7	0.065562
				-0.000353	8	0.033223
			BIAS CORR	0.013110		
			VAR COEFF	0.004517		0.534399
			EFFICIENCY	100.00		99.86
8	8	5	1	1.103997	2	0.641142
			2	-0.073680	4	0.237032
			3	-0.019934	5	0.126637
			4	-0.006629	6	0.093635
			5	-0.003218	7	0.065778
			7	-0.000536	8	0.033324
			BIAS CORR	0.013248		
			VAR COEFF	0.004518		0.535960
			EFFICIENCY	99.98		99.57
8	8	4	1	1.104325	3	0.542358
			2	-0.073723	5	0.176148
			3	-0.019958	6	0.094429
			4	-0.008679	7	0.066269
			6	-0.001966	8	0.033555
			BIAS CORR	0.013666		
			VAR COEFF	0.004519		0.539507
			EFFICIENCY	99.95		98.92
8	8	3	1	1.105320	3	0.552486
			2	-0.073852	5	0.267231
			3	-0.025445	7	0.087030
			5	-0.006022	8	0.034123

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	J	LOCATION	I	SCALE
8	8	3		BIAS CORR	0.014440	
				VAR CCEFF	0.004523	0.547436
				EFFICIENCY	99.85	97.49
			1	1.108619	4	0.617260
			2	-0.090738	7	0.106545
			4	-0.017882	8	0.035538
				BIAS CORR	0.015809	
				VAR CCEFF	0.004538	0.568213
				EFFICIENCY	99.53	93.92
8	8	2	1	1.057995	6	0.329430
			3	-0.057995	8	0.047117
				BIAS CORR	0.018412	
				VAR CCEFF	0.004602	0.621387
				EFFICIENCY	98.14	85.88
			1	1.000000	7	0.287484
				BIAS CORR	0.031250	
				VAR CCEFF	0.004883	0.822740
				EFFICIENCY	92.50	64.87
8	7	7	1	1.103842	1	0.561684
			2	-0.073660	2	0.370950
			3	-0.019922	3	0.263530
			4	-0.006619	4	0.194446
			5	-0.002407	5	0.145763
			6	-0.000880	6	0.108775
			7	-0.000353	7	0.128684
				BIAS CORR	0.013110	
				VAR CCEFF	0.004517	0.611269
				EFFICIENCY	100.00	100.00
8	7	6		EFF(M/N)	100.00	87.31
			1	1.103997	2	0.516644
			2	-0.073680	3	0.264502
			3	-0.019934	4	0.194936
			4	-0.006629	5	0.146059
			5	-0.003218	6	0.108970
			7	-0.000536	7	0.128895
				BIAS CORR	0.013248	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		
				0.004518 99.98		0.612227 99.84
8	7	5	1	1.104325	2	0.738125
			2	-0.073723	4	0.273567
			3	-0.019958	5	0.146787
			4	-0.008679	6	0.109424
			6	-0.001966	7	0.129366
				BIAS CORR VAR CCEFF EFFICIENCY		
				0.013666 0.004519 99.95		0.614300 99.51
8	7	4	1	1.105320	3	0.625745
			2	-0.073852	5	0.204178
			3	-0.025445	6	0.110467
			5	-0.006022	7	0.130441
				BIAS CORR VAR CCEFF EFFICIENCY		
				0.014440 0.004523 99.86		0.619018 98.75
8	7	3	1	1.108619	3	0.639284
			2	-0.090738	5	0.311599
			4	-0.017982	7	0.156073
				BIAS CORR VAR CCEFF EFFICIENCY		
				0.015809 0.004538 99.54		0.629900 97.04
8	7	2	1	1.057995	5	0.453694
			3	-0.057995	7	0.163746
				BIAS CORR VAR CCEFF EFFICIENCY		
				0.018412 0.004602 98.14		0.658079 92.89
8	7	1	1	1.000000	7	0.287484
				BIAS CORR VAR CCEFF EFFICIENCY		
				0.031250 0.004883 92.51		0.822740 74.30
8	6	6	1	1.103998	1	0.664128
			2	-0.073680	2	0.439403
			3	-0.019934	3	0.312942

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
8	6	5	4	-0.006629	4	0.231891
			5	-0.002417	5	0.175184
			6	-0.001328	6	0.323258
			BIAS CORR	0.013517		
			VAR CCEFF	0.004518		0.717527
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.98		74.38
			1	1.104325	2	0.611806
			2	-0.073723	3	0.314188
			3	-0.019958	4	0.232544
8	6	4	4	-0.008679	5	0.175592
			6	-0.001966	6	0.323946
			BIAS CORR	0.013666		
			VAR CCEFF	0.004519		0.718866
			EFFICIENCY	99.97		99.81
			1	1.105320	2	0.675485
			2	-0.073852	4	0.326172
			3	-0.025445	5	0.176585
			5	-0.006022	6	0.325419
			BIAS CORR	0.014440		
8	6	3	VAR CCEFF	0.004523		0.721792
			EFFICIENCY	99.87		99.41
			1	1.108619	3	0.745077
			2	-0.090738	5	0.245490
			4	-0.017882	6	0.328759
			BIAS CORR	0.015809		
			VAR CCEFF	0.004538		0.728476
			EFFICIENCY	99.55		98.50
			1	1.057995	4	0.638954
			3	-0.057995	6	0.384195
8	6	2	BIAS CORR	0.018412		
			VAR CCEFF	0.004602		0.745096
			EFFICIENCY	98.16		96.30
			1	1.000000	6	0.567985
			BIAS CORR	0.031250		
			VAR CCEFF	0.004883		0.838485

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.5

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		92.52
						85.57
8	5	5	1	1.104487	1	0.814962
			2	-0.073744	2	0.540798
			3	-0.019970	3	0.386893
			4	-0.006659	4	0.282789
			5	-0.004115	5	0.708612
				BIAS CORR		0.014246
				VAR CCEFF		0.004520
				EFFICIENCY		100.00
				EFF(M/N)		99.93
						61.39
8	5	4	1	1.105320	2	0.752703
			2	-0.073852	3	0.388605
			3	-0.025445	4	0.289730
			5	-0.006022	5	0.710424
				BIAS CORR		0.014440
				VAR CCEFF		0.004523
				EFFICIENCY		99.92
						99.77
8	5	3	1	1.108619	2	1.075981
			2	-0.090738	4	0.405982
			4	-0.017882	5	0.714664
				BIAS CORR		0.015809
				VAR CCEFF		0.004538
				EFFICIENCY		99.60
						99.26
8	5	2	1	1.057995	2	0.925077
			3	-0.057995	5	0.807748
				BIAS CORR		0.018412
				VAR CCEFF		0.004602
				EFFICIENCY		98.21
						98.10
8	5	1	1	1.000000	5	1.054081
				BIAS CORR		0.031250
				VAR CCEFF		0.004883
				EFFICIENCY		92.57
						91.85
8	4	4	1	1.105901	1	1.055516
			2	-0.073928	2	0.703825
			3	-0.020073	3	0.507207

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
8	4	3	4	-0.011899	4	1.506670
			BIAS CORR	0.015494		
			VAR CCEFF	0.004526		1.102177
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.80		48.42
			1	1.108619	2	0.979027
			2	-0.090738	3	0.509824
			4	-0.017882	4	1.511927
			BIAS CORR	0.015809		
			VAR CCEFF	0.004538		1.105564
8	4	2	1	1.057995	2	1.410970
			3	-0.057995	4	1.674313
			BIAS CORR	0.018412		
			VAR CCEFF	0.004602		1.113292
			EFFICIENCY	98.34		99.00
			1	1.000000	4	1.974601
			BIAS CORR	0.031250		
			VAR CCEFF	0.004883		1.153170
			EFFICIENCY	92.69		95.58
8	3	3	1	1.110086	1	1.490011
			2	-0.074475	2	1.001303
			3	-0.035612	3	3.346963
			BIAS CORR	0.017667		
			VAR CCEFF	0.004544		1.501735
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.39		35.54
			1	1.057995	2	1.391815
			3	-0.057995	3	3.364670
			BIAS CORR	0.018412		
8	3	2	1	1.000000	2	3.958485
			BIAS CORR	0.031250		
			VAR CCEFF	0.004883		1.534769
			1	1.000000		
			BIAS CORR	0.031250		
			VAR CCEFF	0.004883		
			1	1.000000		
			BIAS CORR	0.031250		
			VAR CCEFF	0.004883		
			1	1.000000		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		93.07
						97.85
8	2	2	1	1.124095	1	2.461318
			2	-0.124096	2	8.564470
				BIAS CORR		0.021753
				VAR CCEFF		0.004606
				EFFICIENCY		100.00
				EFF(M/N)		98.07
8	2	1	1	1.000000	2	9.278107
				BIAS CORR		0.031250
				VAR CCEFF		0.004863
				EFFICIENCY		94.33
8	1	1	1	1.000000	1	32.000000
				BIAS CORR		0.031250
				VAR CCEFF		0.004863
				EFFICIENCY		100.00
				EFF(M/N)		92.50
9	9	9	1	1.106419	1	0.481081
			2	-0.074109	2	0.321124
			3	-0.020650	3	0.230833
			4	-0.007154	4	0.172834
			5	-0.002767	5	0.132131
			6	-0.001118	6	0.101501
			7	-0.000441	7	0.076856
			8	-0.000152	8	0.055126
			9	-0.000028	9	0.028563
				BIAS CORR		0.009543
				VAR CCEFF		0.002812
				EFFICIENCY		100.00
				EFF(M/N)		100.00
9	9	8	1	1.106438	2	0.449617
			2	-0.074111	3	0.231478
			3	-0.020651	4	0.173142
			4	-0.007155	5	0.132310
			5	-0.002768	6	0.101617
			6	-0.001119	7	0.076935
			7	-0.000443	8	0.055180

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.90

N	M	L	I	LOCATION	I	SCALE
4	4	7	1	1.106910	2	0.635952
			2	-0.074120	4	0.245336
			3	-0.020656	5	0.137722
			4	-0.007158	6	0.101670
			5	-0.002772	7	0.077102
			6	-0.001519	8	0.055229
			8	-0.000289	9	0.028643
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
4	9	6	1	1.106629	2	0.635879
			2	-0.074138	4	0.245187
			3	-0.020665	6	0.141316
			4	-0.007166	7	0.077506
			5	-0.003700	8	0.055539
			7	-0.000966	9	0.028761
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
4	9	5	1	1.107027	2	0.551171
			2	-0.074186	3	0.273526
			3	-0.020691	7	0.105249
			4	-0.009375	8	0.055989
			6	-0.002801	9	0.028908
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
4	9	4	1	1.108129	4	0.478221
			2	-0.074321	6	0.216997
			3	-0.026364	8	0.073607
			5	-0.007474	9	0.029486
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.83
						97.13
9	9	3	1	1.111606	4	0.630644
			2	-0.091269	7	0.199570
			4	-0.020337	9	0.037087
				BIAS CORR		0.012707
				VAR CCEFF		0.002826
				EFFICIENCY		99.50
						93.46
9	9	2	1	1.062089	6	0.482629
			3	-0.062089	9	0.045621
				BIAS CORR		0.014304
				VAR CCEFF		0.002866
				EFFICIENCY		98.13
						95.23
9	9	1	1	1.000000	7	0.486399
				BIAS CORR		0.024691
				VAR CCEFF		0.003048
				EFFICIENCY		92.25
						84.46
9	3	8	1	1.106438	1	0.543352
			2	-0.074111	2	0.362880
			3	-0.020651	3	0.261047
			4	-0.007155	4	0.195684
			5	-0.002769	5	0.149887
			6	-0.001119	6	0.115545
			7	-0.000443	7	0.088169
			8	-0.000191	8	0.107012
				BIAS CORR		0.009653
				VAR CCEFF		0.002812
				EFFICIENCY		100.00
				EFF (M/N)		100.00
						88.76
9	8	7	1	1.106510	2	0.508067
			2	-0.074120	3	0.261805
			3	-0.020656	4	0.196056
			4	-0.007158	5	0.150108
			5	-0.002772	6	0.115691
			6	-0.001519	7	0.088270
			8	-0.000285	8	0.107127
				BIAS CORR		0.009726

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		
				0.002812 99.99		0.531830 99.50
9	8	6	1	1.106655	2	0.718991
			2	-0.074138	4	0.277778
			3	-0.020665	5	0.150611
			4	-0.007166	6	0.116008
			5	-0.003700	7	0.088483
			7	-0.000986	8	0.107361
				BIAS CORR 0.009957		
				VAR CCEFF 0.002813		0.532922
				EFFICIENCY 99.98		99.69
9	8	5	1	1.107053	2	0.723832
			2	-0.074186	4	0.398817
			3	-0.020691	6	0.160861
			4	-0.009375	7	0.088354
			6	-0.002801	8	0.107887
				BIAS CORR 0.010369		
				VAR CCEFF 0.002814		0.535275
				EFFICIENCY 99.94		99.25
9	8	4	1	1.108159	2	0.624510
			2	-0.074321	5	0.311095
			3	-0.026364	7	0.120729
			5	-0.007474	8	0.108829
				BIAS CORR 0.011055		
				VAR CCEFF 0.002817		0.539400
				EFFICIENCY 99.83		98.49
9	8	3	1	1.111606	4	0.543785
			2	-0.091269	6	0.248600
			4	-0.020337	8	0.130208
				BIAS CORR 0.012203		
				VAR CCEFF 0.002826		0.549436
				EFFICIENCY 99.51		96.70
9	8	2	1	1.062088	5	0.607111
			3	-0.062088	8	0.152371
				BIAS CORR 0.014304		
				VAR CCEFF 0.002866		0.574785

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		98.13
						92.43
9	8	1	1	1.000000	7	0.486399
				BIAS CORR		0.024691
				VAR CCEFF		0.003048
				EFFICIENCY		92.25
						72.62
9	7	7	1	1.106519	1	0.627079
			2	-0.074121	2	0.419248
			3	-0.020656	3	0.302068
			4	-0.007159	4	0.226974
			5	-0.002772	5	0.174533
			6	-0.001123	6	0.135502
			7	-0.000687	7	0.258144
				BIAS CORR		0.009884
				VAR CCEFF		0.002812
				EFFICIENCY		100.00
				EFF(M/N)		77.32
9	7	6	1	1.106655	2	0.586905
			2	-0.074138	3	0.302995
			3	-0.020665	4	0.227443
			4	-0.007166	5	0.174918
			5	-0.003700	6	0.135695
			7	-0.000986	7	0.258473
				BIAS CORR		0.009957
				VAR CCEFF		0.002813
				EFFICIENCY		99.99
						99.88
9	7	5	1	1.107053	2	0.831297
			2	-0.074186	4	0.322133
			3	-0.020691	5	0.175464
			4	-0.009375	6	0.136112
			6	-0.002801	7	0.259148
				BIAS CORR		0.010369
				VAR CCEFF		0.002814
				EFFICIENCY		99.95
						99.64
9	7	4	1	1.108159	2	0.837583
			2	-0.074321	4	0.463513
			3	-0.026364	6	0.188524

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
9	7	3	5	-0.007474	7	0.260720
			BIAS CORR	0.011055		
			VAR CCEFF	0.002817		0.615328
			EFFICIENCY	99.84		99.12
			1	1.111606	2	0.724681
			2	-0.091269	5	0.363786
			4	-0.020337	7	0.295754
			BIAS CORR	0.012203		
			VAR CCEFF	0.002826		0.620979
			EFFICIENCY	99.51		98.22
9	7	2	1	1.062088	4	0.807503
			3	-0.062088	7	0.339553
			BIAS CORR	0.014304		
			VAR CCEFF	0.002866		0.637761
			EFFICIENCY	98.14		95.64
9	7	1	1	1.000000	7	0.486399
			BIAS CORR	0.024691		
			VAR CCEFF	0.003048		0.731556
			EFFICIENCY	92.26		83.38
9	6	6	1	1.106757	1	0.743381
			2	-0.074150	2	0.497310
			3	-0.020672	3	0.359690
			4	-0.007171	4	0.271353
			5	-0.002784	5	0.210014
			6	-0.001979	6	0.537028
			BIAS CORR	0.010283		
			VAR CCEFF	0.002813		0.716609
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.97		65.81
9	6	5	1	1.107053	2	0.696828
			2	-0.074186	3	0.360876
			3	-0.020691	4	0.271975
			4	-0.009375	5	0.210406
			6	-0.002801	6	0.537864
			BIAS CORR	0.010369		
			VAR CCEFF	0.002814		0.717639

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.97
						99.86
9	6	4	1	1.108159	2	0.988395
			2	-0.074321	4	0.384949
			3	-0.026364	5	0.211286
			5	-0.007474	6	0.539614
				BIAS CORR		0.011055
				VAR CCEFF		0.002817
				EFFICIENCY		99.87
						99.57
9	6	3	1	1.111606	2	0.997122
			2	-0.091269	4	0.555863
			4	-0.020337	6	0.605754
				BIAS CORR		0.012203
				VAR CCEFF		0.002826
				EFFICIENCY		99.54
						98.93
9	6	2	1	1.062088	4	0.745505
			3	-0.062088	6	0.616502
				BIAS CORR		0.014304
				VAR CCEFF		0.002866
				EFFICIENCY		98.16
						97.40
9	6	1	1	1.000000	6	0.854741
				BIAS CORR		0.024691
				VAR CCEFF		0.003048
				EFFICIENCY		92.28
						90.03
9	5	5	1	1.107389	1	0.914164
			2	-0.074227	2	0.614071
			3	-0.020713	3	0.445453
			4	-0.007204	4	0.338158
			5	-0.005244	5	1.062394
				BIAS CORR		0.010934
				VAR CCEFF		0.002815
				EFFICIENCY		100.00
				EFF(M/N)		99.91
						54.29
9	5	4	1	1.108159	2	0.858959
			2	-0.074321	3	0.447076
			3	-0.026364	4	0.339051

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
9	5	3	5	-0.007474	5	1.064509
			BIAS CORR	0.011055		
			VAR CCEFF	0.002817		0.870188
			EFFICIENCY	99.93		99.82
9	5	3	1	1.111606	2	1.221144
			2	-0.091269	4	0.479390
			4	-0.020337	5	1.069046
			BIAS CORR	0.012203		
			VAR CCEFF	0.002826		0.873380
9	5	2	EFFICIENCY	99.60		99.46
			1	1.062088	3	1.061589
			3	-0.062088	5	1.184565
			BIAS CORR	0.014304		
9	5	1	VAR CCEFF	0.002866		0.880679
			EFFICIENCY	98.72		98.63
			1	1.000000	5	1.487812
			BIAS CORR	0.024691		
9	4	4	VAR CCEFF	0.003048		0.923003
			EFFICIENCY	92.34		94.11
			1	1.109047	1	1.186240
			2	-0.074429	2	0.800415
9	4	4	3	-0.020822	3	0.584353
			4	-0.013796	4	2.117041
			BIAS CORR	0.011997		
			VAR CCEFF	0.002819		1.101651
			EFFICIENCY	100.00		100.00
9	4	3	EFF(M/N)	99.75		42.81
			1	1.111606	2	1.118909
			2	-0.091269	3	0.586819
			4	-0.020337	4	2.122758
9	4	2	BIAS CORR	0.012203		
			VAR CCEFF	0.002826		1.104277
			EFFICIENCY	99.76		99.76
			1	1.062088	2	1.596340
9	4	2	3	-0.062088	4	2.317240

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	4	1	1	1.000000	4	2.674697
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	3	3	1	1.113677	1	1.677297
			2	-0.074994	2	1.139673
			3	-0.038682	3	4.495791
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		
9	3	2	1	1.062088	2	1.591823
			3	-0.062088	3	4.514339
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	3	1	1	1.000000	2	5.208448
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	2	2	1	1.128562	1	2.774075
			2	-0.128562	2	11.126540
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		
9	2	1	1	1.000000	2	11.944701
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	1	1	1	1.000000	1	40.500002

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.024691		
			VAR CCEFF	0.003048		5.000000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.25		9.43
10	10	10	1	1.108474	1	0.474559
			2	-0.074416	2	0.319639
			3	-0.021205	3	0.232079
			4	-0.007570	4	0.175887
			5	-0.003054	5	0.136606
			6	-0.001312	6	0.107314
			7	-0.000573	7	0.084222
			8	-0.000240	8	0.064930
			9	-0.000087	9	0.047350
			10	-0.000017	10	0.025001
			BIAS CORR	0.007269		
			VAR CCEFF	0.001841		0.422357
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
10	10	9	1	1.108485	2	0.449456
			2	-0.074417	3	0.232615
			3	-0.021706	4	0.176138
			4	-0.007571	5	0.136750
			5	-0.003054	6	0.107408
			6	-0.001312	7	0.084287
			7	-0.000573	8	0.064974
			8	-0.000241	9	0.047383
			9	-0.000111	10	0.025017
			BIAS CORR	0.007336		
			VAR CCEFF	0.001841		0.422628
			EFFICIENCY	100.00		99.94
10	10	8	1	1.108521	2	0.631549
			2	-0.074421	4	0.251362
			3	-0.021208	5	0.137062
			4	-0.007573	6	0.107600
			5	-0.003056	7	0.084416
			6	-0.001314	8	0.065065
			7	-0.000788	9	0.047443
			9	-0.000163	10	0.025048



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.007377		
			VAR CCEFF	0.001841		0.423133
			EFFICIENCY	100.00		99.82
10	10	7	1	1.108593	2	0.634087
			2	-0.074429	4	0.355723
			3	-0.021212	6	0.151346
			4	-0.007576	7	0.084695
			5	-0.003059	8	0.065249
			6	-0.001780	9	0.047564
			8	-0.000537	10	0.025107
			BIAS CORR	0.007516		
			VAR CCEFF	0.001841		0.424093
			EFFICIENCY	99.99		99.59
10	10	6	1	1.108779	2	0.552235
			2	-0.074451	3	0.279292
			3	-0.021223	7	0.117526
			4	-0.007584	8	0.065570
			5	-0.004079	9	0.047773
			7	-0.001442	10	0.025210
			BIAS CORR	0.007753		
			VAR CCEFF	0.001841		0.425741
			EFFICIENCY	99.97		99.20
		5	1	1.109242	3	0.707887
			2	-0.074504	6	0.261887
			3	-0.021251	8	0.089305
			4	-0.009914	9	0.048252
			6	-0.003573	10	0.025437
			BIAS CORR	0.008133		
			VAR CCEFF	0.001842		0.429325
			EFFICIENCY	99.93		98.38
10	10	4	1	1.110446	4	0.613320
			2	-0.074643	7	0.209289
			3	-0.027061	9	0.063412
			5	-0.008742	10	0.025863
			BIAS CORR	0.008732		
			VAR CCEFF	0.001844		0.435743
			EFFICIENCY	99.81		96.93

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	1.114024	5	0.545394
			2	-0.091626	6	0.169278
			4	-0.022397	10	0.032508
			BIAS CORR	0.009704		
			VAR CCEFF	0.001851		0.452546
			EFFICIENCY	99.47		93.33
10	10	2	1	1.065422	7	0.426309
			3	-0.065422	10	0.040265
			BIAS CORR	0.011434		
			VAR CCEFF	0.001876		0.498655
			EFFICIENCY	98.11		84.70
10	10	1	1	1.000000	8	0.427037
			BIAS CORR	0.020000		
			VAR CCEFF	0.002000		0.651857
			EFFICIENCY	92.05		64.79
10	9	9	1	1.108485	1	0.528755
			2	-0.074417	2	0.356270
			3	-0.021206	3	0.258803
			4	-0.007571	4	0.196282
			5	-0.003054	5	0.152614
			6	-0.001312	6	0.120107
			7	-0.000573	7	0.094577
			8	-0.000241	8	0.073450
			9	-0.000111	9	0.091052
			BIAS CORR	0.007336		
			VAR CCEFF	0.001841		0.469676
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		89.93
10	9	8	1	1.108521	2	0.500950
			2	-0.074421	3	0.259421
			3	-0.021208	4	0.196577
			4	-0.007573	5	0.152786
			5	-0.003056	6	0.120220
			6	-0.001314	7	0.094656
			7	-0.000788	8	0.073507
			9	-0.000163	9	0.091120

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.007377		
			VAR CCEFF	0.001841		0.470013
			EFFICIENCY	100.00		99.93
10	9	7	1	1.108593	2	0.704126
			2	-0.074429	4	0.280509
			3	-0.021212	5	0.153156
			4	-0.007576	6	0.120452
			5	-0.003059	7	0.094814
			6	-0.001780	8	0.073619
			8	-0.000537	9	0.091248
			BIAS CORR	0.007516		
			VAR CCEFF	0.001841		0.470641
			EFFICIENCY	99.99		99.79
10	9	6	1	1.108779	2	0.707155
			2	-0.074451	4	0.397234
			3	-0.021223	6	0.169382
			4	-0.007584	7	0.095153
			5	-0.004079	8	0.073847
			7	-0.001442	9	0.091459
			BIAS CORR	0.007753		
			VAR CCEFF	0.001841		0.471839
			EFFICIENCY	99.97		99.54
10	9	5	1	1.109242	3	0.616418
			2	-0.074504	5	0.312422
			3	-0.021251	7	0.131981
			4	-0.009914	8	0.074245
			6	-0.003573	9	0.091933
			BIAS CORR	0.008133		
			VAR CCEFF	0.001842		0.473901
			EFFICIENCY	99.93		99.11
10	9	4	1	1.110446	3	0.791280
			2	-0.074643	6	0.293772
			3	-0.027061	8	0.101039
			5	-0.008742	9	0.092917
			BIAS CORR	0.008732		
			VAR CCEFF	0.001844		0.478410
			EFFICIENCY	99.81		98.17

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	i	LOCATION	i	SCALE
10	9	3	1	1.114024	4	0.687577
			2	-0.041626	7	0.236237
			4	-0.022357	9	0.110983
			BIAS CORR		0.009704	
			VAR COEFF		0.001851	
			EFFICIENCY		99.48	
					96.52	
10	9	2	1	1.015422	6	0.525794
			3	-0.065422	9	0.130582
			BIAS CORR		0.011434	
			VAR COEFF		0.001976	
			EFFICIENCY		98.11	
					91.77	
10	9	1	1	1.000000	6	0.427037
			BIAS CORR		0.020000	
			VAR COEFF		0.002000	
			EFFICIENCY		92.00	
					72.00	
10	8	0	1	1.108530	1	0.595249
			2	-0.074422	2	0.404056
			3	-0.021209	3	0.293809
			4	-0.007573	4	0.223153
			5	-0.003056	5	0.173888
			6	-0.001314	6	0.137343
			7	-0.000575	7	0.108862
			8	-0.000381	8	0.212744
			BIAS CORR		0.007477	
			VAR COEFF		0.001841	
			EFFICIENCY		100.00	
			EFF(M/N)		99.90	
					79.66	
10	8	7	1	1.108593	2	0.561082
			2	-0.074422	3	0.294539
			3	-0.021212	4	0.223510
			4	-0.007576	5	0.174101
			5	-0.003059	6	0.137486
			6	-0.001780	7	0.108964
			8	-0.000337	8	0.212926
			BIAS CORR		0.007116	
			VAR COEFF		0.001841	
					0.930639	

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				99.99		99.92
				EFFICIENCY		
10	8	6	1	1.108779	2	0.798913
			2	-0.074451	4	0.318865
			3	-0.021223	5	0.174556
			4	-0.007584	6	0.137777
			5	-0.004079	7	0.105166
			7	-0.001442	8	0.213275
			BIAS CORR	0.007753		
			VAR CCEFF	0.001841		0.531449
			EFFICIENCY	99.98		99.77
10	8	5	1	1.109242	2	0.802664
			2	-0.074504	4	0.452071
			3	-0.021251	6	0.193620
			4	-0.009914	7	0.105398
			6	-0.003573	8	0.213974
			BIAS CORR	0.008133		
			VAR CCEFF	0.001842		0.533006
			EFFICIENCY	99.93		99.47
10	8	4	1	1.110446	3	0.700709
			2	-0.074643	5	0.356672
			3	-0.027061	7	0.151843
			5	-0.008742	8	0.215187
			BIAS CORR	0.008732		
			VAR CCEFF	0.001844		0.535691
			EFFICIENCY	99.82		98.94
10	8	3	1	1.114024	3	0.901483
			2	-0.091626	6	0.337048
			4	-0.022397	8	0.247446
			BIAS CORR	0.009704		
			VAR CCEFF	0.001851		0.541629
			EFFICIENCY	99.48		97.89
10	8	2	1	1.065422	5	0.675223
			3	-0.065422	8	0.281140
			BIAS CORR	0.011434		
			VAR CCEFF	0.001876		0.557181
			EFFICIENCY	98.11		95.16

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
10	8	1	1	1.000000	8	0.427037
				BIAS CORR		0.020000
				VAR CCEFF		0.002000
				EFFICIENCY		92.05
						81.34
10	7	7	1	1.108656	1	0.693035
			2	-0.074437	2	0.467846
			3	-0.021216	3	0.340754
			4	-0.007579	4	0.259423
			5	-0.003061	5	0.202880
			6	-0.001320	6	0.161181
			7	-0.001044	7	0.425534
				BIAS CORR		0.007708
				VAR CCEFF		0.001841
				EFFICIENCY		100.00
				EFF(M/N)		99.98
10	7	6	1	1.108779	2	0.657632
			2	-0.074451	3	0.341645
			3	-0.021223	4	0.259972
			4	-0.007584	5	0.203155
			5	-0.004079	6	0.161369
			7	-0.001442	7	0.425967
				BIAS CORR		0.007753
				VAR CCEFF		0.001841
				EFFICIENCY		99.99
						99.90
10	7	5	1	1.109242	2	0.925620
			2	-0.074504	4	0.370576
			3	-0.021251	5	0.203737
			4	-0.009914	6	0.161753
			6	-0.003573	7	0.426803
				BIAS CORR		0.008133
				VAR CCEFF		0.001842
				EFFICIENCY		99.94
10	7	4	1	1.110446	2	0.930485
			2	-0.074643	4	0.526334
			3	-0.027061	6	0.227059
			5	-0.008742	7	0.428524

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR		
				VAR CCEFF		0.612981
				EFFICIENCY		99.38
			1	1.114024	3	0.814165
			2	-0.091626	5	0.417350
			4	-0.022397	7	0.480307
				BIAS CORR		
				VAR CCEFF		0.616653
				EFFICIENCY		98.79
10	7	2	1	1.065422	4	0.903667
			3	-0.065422	7	0.532682
				BIAS CORR		
				VAR CCEFF		0.627917
				EFFICIENCY		97.02
			1	1.000000	7	0.719905
				BIAS CORR		
				VAR CCEFF		0.689969
				EFFICIENCY		88.29
10	6	6	1	1.108968	1	0.822968
			2	-0.074473	2	0.556578
			3	-0.021234	3	0.406413
			4	-0.007593	4	0.310539
			5	-0.003074	5	0.244188
			6	-0.002594	6	0.795706
				BIAS CORR		
				VAR CCEFF		0.716044
				EFFICIENCY		100.00
				EFF(M/N)		58.98
10	6	5	1	1.109242	2	0.782096
			2	-0.074504	3	0.407550
			3	-0.021751	4	0.311135
			4	-0.009914	5	0.244564
			6	-0.003573	6	0.800701
				BIAS CORR		
				VAR CCEFF		0.716861
				EFFICIENCY		99.89

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	1.110446	2	1.102193
			2	-0.074643	4	0.443364
			3	-0.027061	5	0.245356
			5	-0.008742	6	0.802656
			BIAS CORR	0.008732		
			VAR CCEFF	0.001844		0.718412
			EFFICIENCY	99.86		99.67
10	6	3	1	1.114024	2	1.108914
			2	-0.091626	4	0.63.447
			4	-0.022357	6	0.884482
			BIAS CORR	0.009704		
			VAR CCEFF	0.001851		0.721493
			EFFICIENCY	99.52		99.24
10	6	2	1	1.065422	4	0.853807
			3	-0.065422	6	0.896617
			BIAS CORR	0.011434		
			VAR CCEFF	0.001876		0.730209
			EFFICIENCY	98.15		98.06
10	6	1	1	1.000000	6	1.186700
			BIAS CORR	0.020000		
			VAR CCEFF	0.002000		0.772659
			EFFICIENCY	92.09		92.67
10	5	5	1	1.109721	1	1.013584
			2	-0.074560	2	0.687390
			3	-0.021279	3	0.503849
			4	-0.007626	4	0.387083
			5	-0.006255	5	1.483660
			BIAS CORR	0.008653		
			VAR CCEFF	0.001843		0.868185
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.88		48.65
10	5	4	1	1.110446	2	0.965423
			2	-0.074643	3	0.505399
			3	-0.027061	4	0.387933
			5	-0.008742	5	1.486023



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
10	5	3		BIAS CORR		
				VAR CCEFF		0.869425
				EFFICIENCY		99.86
			1	1.114024	2	1.363161
		2	2	-0.091626	4	0.552238
			4	-0.022397	6	1.490768
				BIAS CORR		
				VAR CCEFF		0.871812
				EFFICIENCY		99.58
		1	1	1.065422	3	1.199347
			3	-0.065422	5	1.628165
				BIAS CORR		
				VAR CCEFF		0.877267
10	5	1		EFFICIENCY		98.56
				BIAS CORR		
				VAR CCEFF		0.908733
				EFFICIENCY		95.54
		4	1	1.000000	5	1.988067
				BIAS CORR		
				VAR CCEFF		0.908733
				EFFICIENCY		95.54
		4	1	1.111587	1	1.317098
			2	-0.074775	2	0.896945
			3	-0.021391	3	0.561195
			4	-0.015421	4	2.827896
10	4	4		BIAS CORR		
				VAR CCEFF		1.101297
				EFFICIENCY		100.00
				EFF(M/N)		38.35
		3	1	1.114024	2	1.258839
			2	-0.091626	3	0.663536
			4	-0.022397	4	2.834057
				BIAS CORR		
		2		VAR CCEFF		1.103392
				EFFICIENCY		99.11
			1	1.065422	2	1.762781
			3	-0.065422	4	3.060251
10	4	2		BIAS CORR		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		1.107511 99.44
10	4	1	1	1.000000	4	3.474763
				BIAS CORR VAR CCEFF EFFICIENCY		0.020000 1.130226 97.44
10	3	3	1	1.116583	1	1.864638
			2	-0.075352	2	1.277853
			3	-0.041231	3	5.811539
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.011066 0.001855 100.00 28.14
10	3	2	1	1.065422	2	1.791833
			3	-0.065422	3	5.830755
				BIAS CORR VAR CCEFF EFFICIENCY		0.011434 1.505266 99.72
10	3	1	1	1.000000	3	6.625089
				BIAS CORR VAR CCEFF EFFICIENCY		0.020000 1.520863 98.70
10	2	2	1	1.132185	1	3.086779
			2	-0.132185	2	14.022032
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.013799 2.334083 100.00 18.10
10	2	1	1	1.000000	2	14.944650
				BIAS CORR VAR CCEFF EFFICIENCY		0.020000 2.345624 99.51
10	1	1	1	1.000000	1	50.000001
				BIAS CORR		0.020000



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	1.034256	1	0.563998
			2	-0.034256	2	0.384282
				BIAS CORR		0.907168
				VAR CCEFF		100.00
				EFFICIENCY		100.00
2	2	1	1	1.000000	2	0.523897
				BIAS CORR		1.029009
				VAR CCEFF		88.16
				EFFICIENCY		
2	1	1	1	1.000000	1	2.116377
				BIAS CORR		1.830234
				VAR CCEFF		100.00
				EFFICIENCY		49.57
				EFF(M/N)		
3	3	3	1	1.054729	1	0.427106
			2	-0.045446	2	0.334953
			3	-0.009283	3	0.243654
				BIAS CORR		0.601979
				VAR CCEFF		100.00
3	3	2	1	1.056734	2	0.448360
			2	-0.056734	2	0.251567
				BIAS CORR		0.620624
				VAR CCEFF		97.00
				EFFICIENCY		
3	3	1	1	1.000000	3	0.411593
				BIAS CORR		0.754278
				VAR CCEFF		79.81
				EFFICIENCY		
3	2	2	1	1.056734	1	0.653650
			2	-0.056734	2	0.945769
				BIAS CORR		0.906488
				VAR CCEFF		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		66.41
3	2	1	1	1.000000	2	1.153197
				BIAS CORR		
				0.275181		
				VAR CCEFF		0.950323
				0.138594		95.33
				EFFICIENCY		
				98.80		
3	1	1	1	1.000000	1	3.633971
				BIAS CORR		
				0.275181		
				VAR CCEFF		1.830233
				0.138594		
				EFFICIENCY		100.00
				100.00		32.87
				EFF(M/N)		
				98.59		
4	4	4	1	1.065415	1	0.349549
			2	-0.047097	2	0.282828
			3	-0.014686	3	0.234313
			4	-0.003631	4	0.176706
				BIAS CORR		
				0.146552		
				VAR CCEFF		0.450182
				0.063231		
				EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		
				100.00		
4	4	3	1	1.066167	2	0.386603
			2	-0.047204	3	0.237383
			3	-0.018962	4	0.178826
				BIAS CORR		
				0.151836		
				VAR CCEFF		0.455425
				0.063278		98.85
				EFFICIENCY		
				99.92		
4	4	2	1	1.069392	3	0.385881
			2	-0.069392	4	0.189542
				BIAS CORR		
				0.143180		
				VAR CCEFF		0.461577
				0.063488		93.48
				EFFICIENCY		
				99.59		
4	4	1	1	1.000000	4	0.352022
				BIAS CORR		
				0.187514		
				VAR CCEFF		0.612842
				0.064354		73.46
				EFFICIENCY		
				98.25		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	1.066167	1	0.470581
			2	-0.047204	2	0.382540
			3	-0.018962	3	0.590141
		BIAS CORR		0.151836		
				0.063278		0.601491
				100.00		100.00
				99.92		74.84
4	3	2	1	1.069392	2	0.524448
			2	-0.069392	2	0.600063
				0.163180		
		BIAS CORR		0.063488		0.611033
				99.67		98.44
4	3	1	1	1.000000	2	0.836032
				0.187514		
				0.064354		0.660209
		BIAS CORR		98.33		91.11
4	2	2	1	1.069392	1	0.723308
			2	-0.069392	2	1.606091
				0.163180		
		BIAS CORR		0.063488		0.906291
				100.00		100.00
				99.59		49.67
4	2	1	1	1.000000	2	1.858106
				0.187514		
				0.064354		0.929040
		BIAS CORR		98.65		97.55
4	1	1	1	1.000000	1	5.332937
				0.187514		
				0.064354		1.830234
		BIAS CORR		100.00		100.00
				98.25		24.60
5	5	5	1	1.071787	1	0.295046
			2	-0.047229	2	0.245812
			3	-0.016537	3	0.209316
			4	-0.006272	4	0.178635

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
5	5	4	5	-0.001749	5	0.137918
			BIAS CORR	0.103643		
			VAR CCEFF	0.034792		0.359435
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			1	1.072129	2	0.341658
			2	-0.047264	3	0.210736
			3	-0.016570	4	0.179705
			4	-0.008296	5	0.138701
			BIAS CORR	0.106227		
5	5	3				0.361434
			VAR CCEFF	0.034804		99.45
			EFFICIENCY	99.97		
			1	1.073264	2	0.520832
			2	-0.060663	4	0.238377
			4	-0.012601	5	0.141341
			BIAS CORR	0.107763		
			VAR CCEFF	0.034844		0.367986
			EFFICIENCY	99.85		97.68
5	5	2	1	1.040524	2	0.552832
			3	-0.040524	5	0.179702
			BIAS CORR	0.113509		
			VAR CCEFF	0.034970		0.388518
			EFFICIENCY	99.49		92.51
			1	1.000000	4	0.676997
			BIAS CORR	0.139258		
			VAR CCEFF	0.035493		0.515057
			EFFICIENCY	98.02		69.79
5	4	4	1	1.072129	1	0.375819
			2	-0.047264	2	0.309514
			3	-0.016570	3	0.264609
			4	-0.008296	4	0.423058
			BIAS CORR	0.106227		
			VAR CCEFF	0.034804		0.449844
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.97		79.90

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	1.073264	2	0.430597
			2	-0.060663	3	0.266791
			4	-0.012601	4	0.426151
				BIAS CORR		0.107763
				VAR COEFF		0.034844
				EFFICIENCY		99.80
5	4	2	1	1.040524	2	0.660740
			3	-0.040524	4	0.506775
				BIAS CORR		0.113509
				VAR COEFF		0.034970
				EFFICIENCY		99.52
						97.04
5	4	1	1	1.000000	4	0.676997
				BIAS CORR		0.139258
				VAR COEFF		0.035493
				EFFICIENCY		98.06
						87.34
5	3	3	1	1.073398	1	0.507477
			2	-0.047411	2	0.419718
			3	-0.025489	3	0.993496
				BIAS CORR		0.111306
				VAR COEFF		0.034844
				EFFICIENCY		100.00
5	3	2	1	1.040524	2	0.584730
			3	-0.040524	3	1.003664
				BIAS CORR		0.113509
				VAR COEFF		0.034970
				EFFICIENCY		99.65
						99.05
5	3	1	1	1.000000	2	1.240106
				BIAS CORR		0.139258
				VAR COEFF		0.035493
				EFFICIENCY		98.18
						95.04
5	2	2	1	1.077386	1	0.781505
			2	-0.077386	2	2.341869
				BIAS CORR		0.120586
				VAR COEFF		0.034986
						0.906208



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		39.66
5	2	1	1	1.000000	2	2.627861
				BIAS CORR		0.139258
				VAR CCEFF		0.035493
				EFFICIENCY		98.50
5	1	1	1	1.000000	1	7.180915
				BIAS CORR		0.139258
				VAR CCEFF		0.035493
				EFFICIENCY		100.00
				EFF(M/N)		19.64
6	6	6	1	1.075963	1	0.263225
			2	-0.047003	2	0.218494
			3	-0.017398	3	0.188635
			4	-0.007427	4	0.165134
			5	-0.003172	5	0.143602
			6	-0.000963	6	0.112741
				BIAS CORR		0.077969
				VAR CCEFF		0.021359
				EFFICIENCY		100.00
				EFF(M/N)		100.00
6	6	5	1	1.076141	2	0.307354
			2	-0.047018	3	0.189407
			3	-0.017410	4	0.165708
			4	-0.007440	5	0.144066
			5	-0.004274	6	0.113092
				BIAS CORR		0.079411
				VAR CCEFF		0.021363
				EFFICIENCY		99.98
6	6	4	1	1.076564	2	0.450326
			2	-0.047062	4	0.226491
			3	-0.023261	5	0.145279
			5	-0.006241	6	0.113983
				BIAS CORR		0.080107
				VAR CCEFF		0.021371
				EFFICIENCY		99.94

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE			
6	6	3	1	1.077652	3	0.468378			
			2	-0.059965	5	0.192065			
			4	-0.017686	6	0.116305			
			BIAS CORR						
			VAR CCEFF			0.308236			
			EFFICIENCY		99.83	97.04			
6	6	2	1	1.047083	4	0.489606			
			3	-0.047083	6	0.148810			
			BIAS CORR						
			VAR CCEFF			0.327379			
			EFFICIENCY		99.47	91.36			
			6	6	1	1	1.000000	5	0.580618
BIAS CORR									
VAR CCEFF						0.427750			
EFFICIENCY		97.86				69.92			
6	5	5				1	1.076141	1	0.316912
						2	-0.047018	2	0.263303
			3	-0.017410	3	0.227704			
			4	-0.007440	4	0.200034			
			5	-0.004274	5	0.327283			
			BIAS CORR						
			VAR CCEFF			0.359194			
			EFFICIENCY		100.00	100.00			
			EFF(M/N)		99.98	83.27			
			6	5	4	1	1.076564	2	0.370523
2	-0.047062	3				0.228781			
3	-0.023261	4				0.200857			
5	-0.006241	5				0.328530			
BIAS CORR									
VAR CCEFF						0.360524			
EFFICIENCY		99.96	99.63						
6	5	3	1	1.077652	2	0.544101			
			2	-0.059965	4	0.274731			
			4	-0.017686	5	0.331758			
			BIAS CORR						
			VAR CCEFF						
			EFFICIENCY						

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.021394 99.85
						0.363877 98.71
6	5	2	1	1.047083	2	0.569366
			3	-0.047083	5	0.394640
				BIAS CORR		0.087860
				VAR COEFF		0.021473
				EFFICIENCY		99.48
						0.372614 96.40
6	5	1	1	1.000000	5	0.580618
				BIAS CORR		0.109206
				VAR COEFF		0.021827
				EFFICIENCY		97.87
						0.427750 83.97
6	4	4	1	1.076739	1	0.395085
			2	-0.047072	2	0.332257
			3	-0.017453	3	0.288330
			4	-0.012213	4	0.707406
				BIAS CORR		0.082088
				VAR COEFF		0.021375
				EFFICIENCY		100.00
				EFF(M/N)		99.93
						0.449717 100.00 66.51
6	4	3	1	1.077652	2	0.467743
			2	-0.059965	3	0.289980
			4	-0.017686	4	0.710881
				BIAS CORR		0.082873
				VAR COEFF		0.021394
				EFFICIENCY		99.91
						0.451829 99.53
6	4	2	1	1.047083	2	0.689548
			3	-0.047083	4	0.811120
				BIAS CORR		0.087860
				VAR COEFF		0.021473
				EFFICIENCY		99.54
						0.457230 98.36
6	4	1	1	1.000000	4	1.013453
				BIAS CORR		0.109206
				VAR COEFF		0.021827
				EFFICIENCY		97.93
						0.485736 92.58

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	1.078363	1	0.539735
			2	-0.047234	2	0.450986
			3	-0.031129	3	1.440680
		BIAS CORR		0.086576		
				0.021409		0.601247
				100.00		100.00
				99.77		49.75
6	3	2	1	1.047083	2	0.635329
			3	-0.047083	3	1.450583
				0.087860		
		BIAS CORR		0.021473		0.605117
				99.70		99.36
6	3	1	1	1.000000	3	1.777546
				0.109206		
				0.021827		0.620881
		BIAS CORR		98.08		96.84
6	2	2	1	1.082874	1	0.632070
			2	-0.082874	2	3.140143
				0.094262		
		BIAS CORR		0.021504		0.906165
				100.00		100.00
				99.33		33.01
6	2	1	1	1.000000	2	3.453996
				0.109206		
				0.021827		0.915386
		BIAS CORR		98.52		98.99
6	1	1	1	1.000000	1	9.157033
				0.109206		
				0.021827		1.830233
		BIAS CORR		100.00		100.00
				97.86		16.34
7	7	7	1	1.078838	1	0.236321
			2	-0.046699	2	0.197488
			3	-0.017854	3	0.171951
			4	-0.008075	4	0.152456

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			5	-0.003879	5	0.135808
			6	-0.001798	6	0.119654
			7	-0.000582	7	0.095137
				0.061228		
				0.014141		0.256090
				100.00		100.00
				100.00		100.00
7	7	6	1	1.078990	2	0.280256
			2	-0.046706	3	0.172422
			3	-0.017859	4	0.152798
			4	-0.008080	5	0.136084
			5	-0.003886	6	0.119886
			6	-0.002459	7	0.095316
				0.062109		
				0.014142		0.256567
				99.99		99.81
7	7	5	1	1.079181	2	0.401970
			2	-0.046723	4	0.212869
			3	-0.017872	5	0.136659
			4	-0.011087	6	0.120389
			6	-0.003499	7	0.095659
				0.062479		
				0.014145		0.257576
				99.97		99.42
7	7	4	1	1.079645	3	0.419673
			2	-0.046762	5	0.187309
			3	-0.023699	6	0.121630
			5	-0.009184	7	0.096642
				0.064046		
				0.014151		0.260056
				99.93		98.47
7	7	3	1	1.080877	4	0.430477
			2	-0.059315	6	0.162607
			4	-0.021562	7	0.099142
				0.066640		
				0.014168		0.266575
				99.81		96.07

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
7	7	2	1	1.051834	5	0.444730
			3	-0.051834	7	0.127646
			BIAS CORR	0.070928		
			VAR CCEFF	0.014221		0.284835
			EFFICIENCY	99.44		89.91
7	7	1	1	1.000000	6	0.515482
			BIAS CORR	0.088917		
			VAR CCEFF	0.014470		0.365264
			EFFICIENCY	97.72		69.35
7	6	6	1	1.078990	1	0.276301
			2	-0.046706	2	0.231022
			3	-0.017859	3	0.201311
			4	-0.008080	4	0.178760
			5	-0.003886	5	0.155742
			6	-0.002459	6	0.265658
			BIAS CORR	0.062109		
			VAR CCEFF	0.014142		0.298920
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.99		85.67
7	6	5	1	1.079181	2	0.327896
			2	-0.046723	3	0.201927
			3	-0.017872	4	0.179218
			4	-0.011087	5	0.160117
			6	-0.003499	6	0.266251
			BIAS CORR	0.062479		
			VAR CCEFF	0.014145		0.299573
			EFFICIENCY	99.98		99.78
7	6	4	1	1.079645	2	0.470760
			2	-0.046762	4	0.249741
			3	-0.023699	5	0.160951
			5	-0.009184	6	0.267529
			BIAS CORR	0.064046		
			VAR CCEFF	0.014151		0.300957
			EFFICIENCY	99.94		99.32
7	6	3	1	1.080877	3	0.492710

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
7	6	2	2	-0.059315	5	0.220732
			4	-0.021562	6	0.270690
			BIAS CORR			
				0.066640		
			VAR CCEFF			0.304372
			EFFICIENCY			98.21
				99.82		
7	6	3	1	1.051834	4	0.508467
			3	-0.051834	6	0.323783
			BIAS CORR			
				0.070928		
			VAR CCEFF			0.313427
			EFFICIENCY			95.37
				99.45		
7	6	1	1	1.000000	6	0.515482
			BIAS CORR			
				0.088917		
			VAR CCEFF			0.369264
			EFFICIENCY			80.55
				97.73		
7	5	5	1	1.079308	1	0.333144
			2	-0.046730	2	0.278827
			3	-0.017877	3	0.243413
			4	-0.008098	4	0.216773
			5	-0.006603	5	0.544307
			BIAS CORR			
				0.063680		
			VAR CCEFF			0.359097
			EFFICIENCY			100.00
			EFF(M/N)			71.32
7	5	4	1	1.079645	2	0.395814
			2	-0.046762	3	0.244269
			3	-0.023699	4	0.217428
			5	-0.009184	5	0.545794
			BIAS CORR			
				0.064046		
			VAR CCEFF			0.360046
			EFFICIENCY			99.74
				99.97		
7	5	3	1	1.080877	2	0.569204
			2	-0.059315	4	0.303047
			4	-0.021562	5	0.549046
			BIAS CORR			
				0.066640		
			VAR CCEFF			0.362074
			EFFICIENCY			99.18

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	1.051834	2	0.598181
			3	-0.051834	5	0.627389
			BIAS CORR	0.070928		
			VAR CCEFF	0.014221		0.367098
			EFFICIENCY	99.48		97.82
7	5	1	1	1.000000	5	0.848727
			BIAS CORR	0.088917		
			VAR CCEFF	0.014470		0.397911
			EFFICIENCY	97.76		90.25
7	4	4	1	1.080093	1	0.419985
			2	-0.046796	2	0.352230
			3	-0.017925	3	0.308351
			4	-0.015373	4	1.021194
			BIAS CORR	0.066173		
			VAR CCEFF	0.014157		0.449654
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.88		56.55
7	4	3	1	1.080877	2	0.500070
			2	-0.059315	3	0.309655
			4	-0.021562	4	1.024794
			BIAS CORR	0.066640		
			VAR CCEFF	0.014168		0.451164
			EFFICIENCY	99.92		99.67
7	4	2	1	1.051834	2	0.721013
			3	-0.051834	4	1.139612
			BIAS CORR	0.070928		
			VAR CCEFF	0.014221		0.454428
			EFFICIENCY	99.55		98.95
7	4	1	1	1.000000	4	1.367279
			BIAS CORR	0.088917		
			VAR CCEFF	0.014470		0.472720
			EFFICIENCY	97.84		95.12
7	3	3	1	1.081977	1	0.568568
			2	-0.046964	2	0.478301



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
7	3	2	3	-0.035014	3	1.924418
			BIAS CORR	0.070095		
			VAR CCEFF	0.014183		0.601205
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.70		42.60
7	3	2	1	1.051834	2	0.675257
			3	-0.051834	3	1.933908
			BIAS CORR	0.070928		
			VAR CCEFF	0.014221		0.603975
			EFFICIENCY	99.73		99.54
7	3	1	1	1.000000	3	2.293743
			BIAS CORR	0.088917		
			VAR CCEFF	0.014470		0.614665
			EFFICIENCY	98.02		97.81
7	2	2	1	1.086867	1	0.877112
			2	-0.096867	2	3.992420
			BIAS CORR	0.076579		
			VAR CCEFF	0.014250		0.906140
			EFFICIENCY	100.00		100.00
7	2	1				28.26
			EFF(M/N)	99.23		
			1	1.000000	2	4.330126
			BIAS CORR	0.088917		
			VAR CCEFF	0.014470		0.912752
7	1	1				99.28
			EFFICIENCY	98.48		
			1	1.000000	1	11.246454
			BIAS CORR	0.088917		
			VAR CCEFF	0.014470		1.830233
8	8	8				100.00
			EFFICIENCY	100.00		13.99
			EFF(M/N)	97.72		
			1	1.081038	1	0.215269
			2	-0.046397	2	0.180789
8	8	8	3	-0.018115	3	0.158328
			4	-0.008481	4	0.141478
			5	-0.004314	5	0.127555
			6	-0.002249	6	0.115003

TABLE

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
8	8	7	7	-0.001106	7	0.102309
			8	-0.000377	8	0.082165
			BIAS CORR	0.049622		
			VAR CCEFF	00		0.223085
			EFFICIENCY			100.00
			EFF(M/N)			100.00
8	8	7	1	1.081102	2	0.258265
			2	-0.046401	3	0.158640
			3	-0.018117	4	0.141699
			4	-0.008483	5	0.127729
			5	-0.004316	6	0.115152
			6	-0.002253	7	0.102437
			7	-0.001531	8	0.082265
			BIAS CORR	0.050201		
8	8	6	1	1.081200	2	0.365536
			2	-0.046408	4	0.199961
			3	-0.018123	5	0.128077
			4	-0.008488	6	0.115445
			5	-0.006041	7	0.102681
			6	-0.002140	8	0.082456
			BIAS CORR	0.050418		
			VAR CCEFF	0.009895		0.224670
8	8	5	1	1.081439	3	0.384369
			2	-0.046426	5	0.178028
			3	-0.018133	6	0.116145
			4	-0.011552	7	0.103282
			5	-0.005327	8	0.082922
			BIAS CORR	0.051394		
			VAR CCEFF	0.009898		0.225920
			EFFICIENCY	99.96		99.10
8	8	4	1	1.082000	3	0.385050
			2	-0.046468	5	0.270732
			3	-0.023935	7	0.136090
			4	-0.011597	8	0.083885

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.052938		
			VAR CCEFF	0.009903		0.228406
			EFFICIENCY	99.91		98.02
8	8	3	1	1.083342	4	0.525383
			2	-0.058751	7	0.166494
			4	-0.024591	8	0.086500
			BIAS CORR	0.055286		
			VAR CCEFF	0.009916		0.235301
			EFFICIENCY	99.78		95.15
8	8	2	1	1.055428	5	0.567274
			3	-0.055428	8	0.125474
			BIAS CORR	0.059003		
			VAR CCEFF	0.009953		0.252768
			EFFICIENCY	99.40		88.57
8	8	1	1	1.000000	7	0.468228
			BIAS CORR	0.074415		
			VAR CCEFF	0.010135		0.327224
			EFFICIENCY	97.62		68.42
8	7	7	1	1.091102	1	0.246387
			2	-0.046401	2	0.206981
			3	-0.018117	3	0.181361
			4	-0.008483	4	0.162170
			5	-0.004316	5	0.146420
			6	-0.002253	6	0.132391
			7	-0.001531	7	0.222885
			BIAS CORR	0.050201		
			VAR CCEFF	0.009854		0.255953
			EFFICIENCY	100.00		100.00
			EFF (M/N)	99.99		87.47
8	7	6	1	1.041200	2	0.295709
			2	-0.046408	3	0.181750
			3	-0.018123	4	0.162473
			4	-0.008488	5	0.146646
			5	-0.006041	6	0.132587
			7	-0.002140	7	0.223200
			BIAS CORR	0.050418		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.009895 99.99		0.256309 99.86
8	7	5	1	1.081439	2	0.418749
			2	-0.046426	4	0.225280
			3	-0.018133	5	0.147095
			4	-0.011552	6	0.132968
			5	-0.005327	7	0.222802
				BIAS CORR 0.051354		
				VAR COEFF 0.009898		0.256982
				EFFICIENCY 99.97		99.80
8	7	4	1	1.042000	2	0.440887
			2	-0.046469	4	0.205470
			3	-0.023335	5	0.132885
			4	-0.011547	6	0.225275
				BIAS CORR 0.252938		
				VAR COEFF 0.009903		0.258626
				EFFICIENCY 99.91		98.57
8	7	3	1	1.003362	2	0.447326
			2	-0.054791	4	0.311957
			4	-0.024991	7	0.264797
				BIAS CORR 0.055286		
				VAR COEFF 0.009916		0.261754
				EFFICIENCY 99.79		97.72
8	7	2	1	1.055428	4	0.605437
			3	-0.055428	7	0.304631
				BIAS CORR 0.059001		
				VAR COEFF 0.009991		0.271122
				EFFICIENCY 99.61		94.41
8	7	1	1	1.000000	7	0.468229
				BIAS CORR 0.074419		
				VAR COEFF 0.010135		0.327224
				EFFICIENCY 97.63		78.22
8	6	6	1	1.081287	1	0.288367
			2	-0.046413	2	0.242430
			3	-0.018125	3	0.212564

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			4	-0.008491	4	0.190417
			5	-0.004325	5	0.172342
			6	-0.003932	6	0.439866
			BIAS CORR	0.051196		
			VAR COEFF	0.009896		0.298844
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.98		74.92
8	6	5	1	1.081439	2	0.346366
			2	-0.046426	3	0.213072
			3	-0.018133	4	0.190795
			4	-0.011552	5	0.172649
			6	-0.005327	6	0.440604
			BIAS CORR	0.051354		
			VAR COEFF	0.009899		0.299333
			EFFICIENCY	99.99		99.84
8	6	4	1	1.082000	2	0.440837
			2	-0.046469	4	0.269265
			3	-0.023935	5	0.173258
			5	-0.011597	6	0.442025
			BIAS CORR	0.052938		
			VAR COEFF	0.009703		0.300257
			EFFICIENCY	99.93		99.53
8	6	3	1	1.083342	2	0.517786
			2	-0.058751	3	0.242128
			4	-0.024591	6	0.445493
			BIAS CORR	0.055286		
			VAR COEFF	0.009916		0.302573
			EFFICIENCY	99.80		98.78
8	6	2	1	1.055428	4	0.530507
			3	-0.055428	6	0.511158
			BIAS CORR	0.054004		
			VAR COEFF	0.009953		0.300067
			EFFICIENCY	99.43		97.01
8	6	1	1	1.000000	6	0.734320
			BIAS CORR	0.074415		
			VAR COEFF	0.010135		0.335463

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		88.03
8	5	5	1	1.081713	1	0.346016
			2	-0.046443	2	0.292783
			3	-0.018146	3	0.257265
			4	-0.008511	4	0.230720
			5	-0.008613	5	0.782821
				BIAS CORR		
				0.052715		
				VAR COEFF		0.359045
				0.009900		
				EFFICIENCY		100.00
				EFF(M/N)		62.36
8	5	4	1	1.082000	2	0.418357
			2	-0.046468	3	0.257969
			3	-0.023935	4	0.231458
			5	-0.011597	5	0.784429
				BIAS CORR		
				0.052938		
				VAR COEFF		0.359757
				0.009903		
				EFFICIENCY		99.80
8	5	3	1	1.083342	2	0.593669
			2	-0.058751	4	0.326685
			4	-0.024591	5	0.787557
				BIAS CORR		
				0.055286		
				VAR COEFF		0.361113
				0.009916		
				EFFICIENCY		99.43
8	5	2	1	1.055428	3	0.628179
			3	-0.055428	5	0.877139
				BIAS CORR		
				0.059003		
				VAR COEFF		0.364440
				0.009953		
				EFFICIENCY		98.57
8	5	1	1	1.000000	5	1.126506
				BIAS CORR		
				0.074413		
				VAR COEFF		0.384380
				0.010135		
				EFFICIENCY		93.41
8	4	4	1	1.082642	1	0.435005
			2	-0.046519	2	0.370162
			3	-0.018195	3	0.325899

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			4	-0.017932	4	1.359662
			BIAS CORR	0.054981		
			VAR CCEFF	0.009909		0.449617
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.85		49.79
8	4	3	1	1.083342	2	0.528852
			2	-0.058751	3	0.326962
			4	-0.024591	4	1.363267
			BIAS CORR	0.055266		
			VAR CCEFF	0.009916		0.450750
			EFFICIENCY	99.93		99.75
8	4	2	1	1.055428	2	0.751848
			3	-0.055428	4	1.489817
			BIAS CORR	0.059003		
			VAR CCEFF	0.009953		0.452931
			EFFICIENCY	99.56		99.27
8	4	1	1	1.000000	4	1.738761
			BIAS CORR	0.074415		
			VAR CCEFF	0.010135		0.465724
			EFFICIENCY	97.77		96.54
8	3	3	1	1.084724	1	0.594758
			2	-0.046685	2	0.502737
			3	-0.038039	3	2.435856
			BIAS CORR	0.058422		
			VAR CCEFF	0.009929		0.601179
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.65		37.24
8	3	2	1	1.055428	2	0.718407
			3	-0.055428	3	2.448944
			BIAS CORR	0.059003		
			VAR CCEFF	0.009953		0.603260
			EFFICIENCY	99.75		99.66
8	3	1	1	1.000000	3	2.837069
			BIAS CORR	0.074415		
			VAR CCEFF	0.010135		0.610992

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		97.96
						98.39
8	2	2	1	1.089900	1	0.917933
			2	-0.089900	2	4.892619
				BIAS CORR		0.063985
				VAR CCEFF		0.009978
				EFFICIENCY		100.00
				EFF(M/N)		99.16
8	2	1	1	1.000000	2	5.251326
				BIAS CORR		0.074415
				VAR CCEFF		0.010135
				EFFICIENCY		98.45
8	1	1	1	1.000000	1	13.438158
				BIAS CORR		0.074415
				VAR CCEFF		0.010135
				EFFICIENCY		100.00
				EFF(M/N)		97.62
9	9	9	1	1.082680	1	0.198281
			2	-0.046119	2	0.167158
			3	-0.018270	3	0.147013
			4	-0.008757	4	0.132071
			5	-0.004601	5	0.119956
			6	-0.002548	6	0.109406
			7	-0.001403	7	0.099518
			8	-0.000725	8	0.089199
			9	-0.000257	9	0.072224
				BIAS CORR		0.041204
				VAR CCEFF		0.007221
				EFFICIENCY		100.00
				EFF(M/N)		100.00
9	9	8	1	1.082721	2	0.240027
			2	-0.046122	3	0.147293
			3	-0.018271	4	0.132226
			4	-0.008758	5	0.120070
			5	-0.004602	6	0.109508
			6	-0.002550	7	0.099604
			7	-0.001405	8	0.089276



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
9	9	7	8	-0.001013	9	0.072285
			BIAS CORR	0.041603		
			VAR CCEFF	0.007221		0.199036
			EFFICIENCY	100.00		99.92
			1	1.082777	2	0.336646
			2	-0.046126	4	0.188309
			3	-0.018273	5	0.120277
			4	-0.008760	6	0.109699
			5	-0.004604	7	0.099754
			6	-0.003617	8	0.089410
9	9	6	8	-0.001396	9	0.072390
			BIAS CORR	0.041740		
			VAR CCEFF	0.007221		0.199324
			EFFICIENCY	99.99		99.77
			1	1.082905	2	0.337891
			2	-0.046137	4	0.269658
			3	-0.018278	5	0.152717
			4	-0.011844	6	0.100087
			6	-0.005248	8	0.089697
			8	-0.001397	9	0.072612
9	9	5	BIAS CORR	0.041860		
			VAR CCEFF	0.007222		0.199923
			EFFICIENCY	99.98		99.47
			1	1.083167	2	0.358520
			2	-0.046153	5	0.248424
			3	-0.024021	7	0.136561
			5	-0.009648	8	0.090221
			7	-0.003345	9	0.073023
			BIAS CORR	0.042533		
			VAR CCEFF	0.007224		0.201025
9	9	4	EFFICIENCY	99.95		98.93
			1	1.083836	2	0.464502
			2	-0.046207	6	0.271154
			3	-0.028635	8	0.119113
			6	-0.008994	9	0.073999
			BIAS CORR	0.043799		
			VAR CCEFF	0.007229		0.203601

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.89
						97.68
9	9	3	1	1.085286	4	0.485025
			2	-0.058268	7	0.257969
			4	-0.027018	9	0.091729
			BIAS CORR	0.046945		
			VAR CCEFF	0.007239		0.209683
			EFFICIENCY	99.75		94.84
9	9	2	1	1.058241	6	0.521029
			3	-0.058241	9	0.110952
			BIAS CORR	0.050201		
			VAR CCEFF	0.007266		0.225903
			EFFICIENCY	99.37		88.03
9	9	1	1	1.000000	8	0.432199
			BIAS CORR	0.063600		
			VAR CCEFF	0.007403		0.295463
			EFFICIENCY	97.54		67.31
9	8	8	1	1.082721	1	0.223298
			2	-0.046122	2	0.188295
			3	-0.018271	3	0.165631
			4	-0.008758	4	0.148885
			5	-0.004602	5	0.135299
			6	-0.002550	6	0.123570
			7	-0.001405	7	0.112699
			8	-0.001013	8	0.191560
			BIAS CORR	0.041603		
			VAR COEFF	0.007221		0.223778
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		88.87
9	8	7	1	1.082777	2	0.270387
			2	-0.046126	3	0.165896
			3	-0.018273	4	0.149075
			4	-0.008760	5	0.135442
			5	-0.004604	6	0.123698
			6	-0.003617	7	0.112809
			8	-0.001396	8	0.191743
			BIAS CORR	0.041740		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE		
				VAR COEFF		0.223989		
				EFFICIENCY		99.99		
9	8	6	1	1.082905	2	0.379323		
			2	-0.046137	4	0.212307		
			3	-0.018278	5	0.135701		
			4	-0.011844	6	0.123936		
			6	-0.005248	7	0.112999		
			8	-0.001397	8	0.192063		
				BIAS CORR				
				VAR COEFF		0.224354		
			EFFICIENCY		99.74			
		9	8	5	1	1.083167	2	0.380876
2	-0.046153				4	0.304207		
3	-0.024021				6	0.172540		
5	-0.009648				7	0.113422		
7	-0.003345				8	0.192743		
	BIAS CORR							
	VAR COEFF					0.225116		
	EFFICIENCY				99.41			
9	8			4	1	1.083836	2	0.404521
					2	-0.046207	5	0.280688
		3	-0.028635		7	0.154760		
		6	-0.008994		8	0.193954		
			BIAS CORR					
			VAR COEFF		0.226523			
			EFFICIENCY		98.79			
		9	8	3	1	1.085286	3	0.525133
					2	-0.058268	6	0.307326
					4	-0.027018	8	0.228388
	BIAS CORR							
	VAR COEFF				0.229832			
	EFFICIENCY				97.37			
2	1			1.058241	5	0.553482		
	3			-0.058241	6	0.263224		
				BIAS CORR				
				VAR COEFF		0.238331		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		93.89
9	8	1	1	1.000000	8	0.432199
				BIAS CORR		
				VAR CCEFF		0.295463
				EFFICIENCY		75.74
9	7	7	1	1.012837	1	0.255805
			2	-0.046129	2	0.215715
			3	-0.018276	3	0.189969
			4	-0.008761	4	0.170770
			5	-0.004607	5	0.155511
			6	-0.002555	6	0.142308
			7	-0.002510	7	0.367678
				BIAS CORR		
				VAR CCEFF		0.255893
				EFFICIENCY		100.00
				EFF(M/N)		77.72
9	7	6	1	1.082914	2	0.305800
			2	-0.046133	3	0.190319
			3	-0.018280	4	0.171012
			4	-0.008764	5	0.155698
			5	-0.006396	6	0.142476
			7	-0.003341	7	0.368083
				BIAS CORR		
				VAR CCEFF		0.256169
				EFFICIENCY		99.89
9	7	5	1	1.083167	2	0.434880
			2	-0.046153	4	0.243613
			3	-0.024021	5	0.156034
			5	-0.009648	6	0.142785
			7	-0.003345	7	0.368750
				BIAS CORR		
				VAR CCEFF		0.256650
				EFFICIENCY		99.71
9	7	4	1	1.083836	2	0.436993
			2	-0.046207	4	0.349466
			3	-0.028635	6	0.198777

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
9	7	3	6	-0.008994	7	0.370318
			BIAS CORR	0.043799		
			VAR CCEFF	0.007229		0.257659
			EFFICIENCY	99.90		99.31
			1	1.085286	2	0.464683
			2	-0.058268	5	0.323294
			4	-0.027018	7	0.419934
			BIAS CORR	0.046945		
			VAR CCEFF	0.007239		0.259522
			EFFICIENCY	99.77		98.60
9	7	2	1	1.058241	4	0.616019
			3	-0.058241	7	0.469663
			BIAS CORR	0.050201		
			VAR CCEFF	0.007266		0.265069
			EFFICIENCY	99.39		96.54
9	7	1	1	1.000000	7	0.661128
			BIAS CORR	0.063600		
			VAR CCEFF	0.007403		0.297715
			EFFICIENCY	97.55		85.95
9	6	6	1	1.083089	1	0.299502
			2	-0.046146	2	0.252981
			3	-0.018285	3	0.222636
			4	-0.008771	4	0.200753
			5	-0.004616	5	0.182985
			6	-0.005272	6	0.630637
			BIAS CORR	0.043260		
			VAR CCEFF	0.007224		0.298803
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.96		66.56
9	6	5	1	1.083217	2	0.363207
			2	-0.046157	3	0.223065
			3	-0.018290	4	0.201075
			4	-0.011862	5	0.183238
			6	-0.006908	6	0.631463
			BIAS CORR	0.043383		
			VAR CCEFF	0.007224		0.299182

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				99.99		99.87
				EFFICIENCY		
9	6	4	1	1.083836	2	0.509978
			2	-0.046207	4	0.286263
			3	-0.028635	5	0.183694
			6	-0.008994	6	0.632928
				BIAS CORR		
				0.043799		
				VAR CO		0.299842
				0.007229		99.65
				EFFICIENCY		
				99.93		
9	6	3	1	1.085286	2	0.512716
			2	-0.058268	4	0.411181
			4	-0.027018	6	0.701286
				BIAS CORR		
				0.046945		
				VAR CCEFF		0.301242
				0.007239		99.19
				EFFICIENCY		
				99.79		
9	6	2	1	1.058241	2	0.702566
			3	-0.058241	6	0.768595
				BIAS CORR		
				0.050701		
				VAR CCEFF		0.305229
				0.007266		97.89
				EFFICIENCY		
				99.41		
9	6	1	1	1.000000	6	0.968384
				BIAS CORR		
				0.063600		
				VAR CCEFF		0.325730
				0.007403		91.73
				EFFICIENCY		
				97.57		
9	5	5	1	1.083601	1	0.361798
			2	-0.046179	2	0.305449
			3	-0.018309	3	0.269785
			4	-0.008790	4	0.243325
			5	-0.010322	5	1.039416
				BIAS CORR		
				0.044685		
				VAR CCEFF		0.359014
				0.007227		100.00
				EFFICIENCY		55.39
				100.00		
				EFF(M/N)		
				99.91		
9	5	4	1	1.083855	2	0.438721
			2	-0.046198	3	0.270378
			3	-0.024067	4	0.243782

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			5	-0.013584	5	1.041077
			BIAS CORR	0.044832		
			VAR COEFF	0.007229		0.359568
			EFFICIENCY	99.98		99.85
4	5	3	1	1.085286	2	0.616721
			2	-0.058268	4	0.347210
			4	-0.027018	5	1.044044
			BIAS CORR	0.046945		
			VAR COEFF	0.007239		0.360538
			EFFICIENCY	99.94		99.58
4	5	2	1	1.058241	2	0.657082
			3	-0.058241	5	1.142518
			BIAS CORR	0.030201		
			VAR COEFF	0.007266		0.362925
			EFFICIENCY	99.46		98.92
4	5	1	1	1.000000	5	1.415681
			BIAS CORR	0.063600		
			VAR COEFF	0.007403		0.376970
			EFFICIENCY	97.62		95.24
7	4	4	1	1.084544	1	0.456489
			2	-0.046256	2	0.386533
			3	-0.018357	3	0.341623
			4	-0.020031	4	1.719648
			BIAS CORR	0.046732		
4	4	3	1	1.085286	2	0.554919
			2	-0.058268	3	0.342516
			4	-0.027018	4	1.723201
			BIAS CORR	0.046945		
			VAR COEFF	0.007239		0.450475
			EFFICIENCY	99.94		99.80
4	4	2	1	1.058241	2	0.781256
			3	-0.058241	4	1.859667

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAN CORR		
				EFFICIENCY		
4	4	1	1	1.000000	4	2.127117
				BIAS CORR		
				VAN CORR		
4	4	1	2	0.000000	4	0.461909
				BIAS CORR		
				VAN CORR		
4	4	1	3	0.000000	4	0.461909
				BIAS CORR		
				VAN CORR		
4	4	1	4	0.000000	4	0.461909
				BIAS CORR		
				VAN CORR		
4	4	1	5	0.000000	4	0.461909
				BIAS CORR		
				VAN CORR		
4	4	1	6	0.000000	4	0.461909
				BIAS CORR		
				VAN CORR		
4	4	1	7	0.000000	4	0.461909
				BIAS CORR		
				VAN CORR		
4	4	1	8	0.000000	4	0.461909
				BIAS CORR		
				VAN CORR		
4	4	1	9	0.000000	4	0.461909
				BIAS CORR		
				VAN CORR		
4	4	1	10	0.000000	4	0.461909
				BIAS CORR		
				VAN CORR		



TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

n	m	k	j	LOCATION	j	SCALE		
n=2				0.75 CORR				
				VAR CORR				
				EFFICIENCY				
				EFF (2/3)				
				0.661600				
				0.007461		1.030734		
				100.00		100.00		
				97.56		10.87		
10	10	10	1	1.001763	1	0.104702		
			2	0.645072	2	0.155154		
			3	0.419361	3	0.131866		
			4	0.268457	4	0.172319		
			5	0.164796	5	0.113177		
			6	0.097741	6	0.101731		
			7	0.051601	7	0.045619		
			8	0.029311	8	0.001560		
			9	0.006477	9	0.000177		
			10	0.001000	10	0.000011		
				0.938614				
				0.055540		0.170006		
				100.00		100.00		
				100.00		100.00		
10	10	5	1	1.001350	1	0.175679		
			2	0.645071	2	0.131677		
			3	0.419364	3	0.125077		
			4	0.268458	4	0.111781		
			5	0.164797	5	0.104070		
			6	0.097747	6	0.145677		
			7	0.051604	7	0.001571		
			8	0.029311	8	0.015010		
			9	0.006477	9	0.000017		
			10	0.001000	10	0.000000		
				0.938614				
				0.055540		0.170006		
				100.00		100.00		
				100.00		100.00		
10	10	4	1	1.000011	1	0.117111		
			2	0.645070	2	0.111010		
			3	0.419366	3	0.111010		
			4	0.268458	4	0.100101		
			5	0.164798	5	0.095101		
			6	0.097740	6	0.001171		
			7	0.051600	7	0.015001		
			8	0.029311	8	0.000010		
			9	0.006477	9	0.000000		
			10	0.001000	10	0.000000		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
BIAS CORR VAR CORR EFFICIENCY				0.035755 0.005669 97.97		0.175161 97.86
10	10	7	1	1.000000	2	0.312779
			2	=0.045674	4	0.751503
			3	=0.018312	6	0.146980
			4	=0.000750	7	0.095937
			5	=0.000036	8	0.001703
			7	=0.001297	9	0.015733
			9	=0.000500	10	0.066553
			BIAS CORR VAR CORR EFFICIENCY			0.175161 97.86
10	10	6	1	1.000000	2	0.312779
			2	=0.045674	4	0.751503
			3	=0.018312	6	0.146980
			4	=0.000750	7	0.095937
			5	=0.000036	8	0.001703
			7	=0.001297	9	0.015733
			9	=0.000500	10	0.066553
			BIAS CORR VAR CORR EFFICIENCY			0.175161 97.86
10	10	5	1	1.000000	2	0.312779
			2	=0.045674	4	0.751503
			3	=0.018312	6	0.146980
			4	=0.000750	7	0.095937
			5	=0.000036	8	0.001703
			7	=0.001297	9	0.015733
			9	=0.000500	10	0.066553
			BIAS CORR VAR CORR EFFICIENCY			0.175161 97.86
10	10	4	1	1.000000	2	0.312779
			2	=0.045674	4	0.751503
			3	=0.018312	6	0.146980
			4	=0.000750	7	0.095937
			5	=0.000036	8	0.001703
			7	=0.001297	9	0.015733
			9	=0.000500	10	0.066553
			BIAS CORR VAR CORR EFFICIENCY			0.175161 97.86

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	J	SCALE
10	10	1	1	1.086714	9	0.495701
			2	-0.066586	1	0.727680
			3	-0.020120	10	0.001948
		2		BIAS CORR		
				0.019097		
				VAR CORR		0.109059
				EFFICIENCY		94.62
10	10	2	1	1.040501	9	0.484726
			3	-0.040501	10	0.095778
				BIAS CORR		
				0.043471		
				VAR CORR		0.204918
				EFFICIENCY		81.74
10	10	3	1	1.000000	9	0.602782
				BIAS CORR		
				0.040765		
				VAR CORR		0.740164
				EFFICIENCY		61.14
10	4	4	1	1.041990	1	0.204877
			2	-0.041990	2	0.173245
			3	-0.018125	3	0.187277
			4	-0.018958	4	0.131704
			5	-0.014792	5	0.125453
			6	-0.007121	6	0.115720
			7	-0.001005	7	0.104479
			8	-0.004931	8	0.091881
			9	-0.009077	9	0.167686
		5		BIAS CORR		
				0.015126		
				VAR CORR		0.140784
				EFFICIENCY		100.00
				EFFICIENCY		100.00
						84.44
10	4	6	1	1.004031	1	0.245810
			2	-0.044875	2	0.151117
			3	-0.010164	3	0.130086
			4	-0.018758	4	0.120084
			5	-0.014790	5	0.113054
			6	-0.012710	6	0.104457
			7	-0.007120	7	0.091784
			8	-0.004571	8	0.107748

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.035255		
			VAN COEFF	0.009449	0.148916	
			EFFICIENCY	100.00	99.93	
10	4	7	1	1.084096	2	0.348132
			2	=0.045076	4	0.147474
			3	=0.018172	5	0.126224
			4	=0.008950	6	0.116036
			5	=0.006634	7	0.108748
			6	=0.004297	8	0.098077
			7	=0.002950	9	0.167781
			BIAS CORR	0.035255		
			VAN COEFF	0.009449	0.148916	
			EFFICIENCY	99.93	99.93	
11	4	6	1	1.084211	2	0.349024
			2	=0.045085	4	0.147474
			3	=0.018168	5	0.126170
			4	=0.008954	6	0.116021
			5	=0.006609	7	0.098319
			6	=0.004272	8	0.168323
			BIAS CORR	0.035255		
			VAN COEFF	0.009449	0.148916	
			EFFICIENCY	99.93	99.93	
12	4	5	1	1.084517	2	0.347284
			2	=0.045070	4	0.147474
			3	=0.018094	5	0.126160
			4	=0.008729	6	0.098444
			5	=0.006283	7	0.148472
			BIAS CORR	0.035255		
			VAN COEFF	0.009449	0.148916	
			EFFICIENCY	99.93	99.93	
13	4	4	1	1.085170	2	0.345976
			2	=0.045170	4	0.148171
			3	=0.018034	5	0.134816
			4	=0.008670	6	0.170270
			BIAS CORR	0.035255		
			VAN COEFF	0.009449	0.148916	
			EFFICIENCY	99.93	99.93	

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 7 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
10	9	1	1	1.086714	4	0.490364
			2	-0.066386	7	0.269766
			3	-0.020124	6	0.200710
			BIAS CORR	0.039047		
			VAR CORR	0.003462		0.204498
			EFFICIENCY	94.74		97.21
10	9	2	1	1.060501	6	0.512074
			3	-0.060501	5	0.232119
			BIAS CORR	0.043471		
			VAR CORR	0.003484		0.213754
			EFFICIENCY	94.39		93.20
10	9	3	1	1.000000	6	0.602252
			BIAS CORR	0.000000		
			VAR CORR	0.000000		0.266104
			EFFICIENCY	97.47		74.01
10	8	4	1	1.084074	1	0.230436
			2	-0.044074	2	0.149300
			3	-0.018125	3	0.172771
			4	-0.008740	4	0.159770
			5	-0.004747	5	0.147100
			6	-0.002712	6	0.130474
			7	-0.001607	7	0.120773
			8	-0.000444	8	0.119008
			BIAS CORR	0.035411		
			VAR CORR	0.003447		0.223777
			EFFICIENCY	100.00		100.00
			EFFICIENCY	94.47		74.47
10	8	7	1	1.084110	2	0.281600
			2	-0.044083	3	0.172447
			3	-0.018169	4	0.159741
			4	-0.008764	5	0.147219
			5	-0.004746	6	0.131043
			6	-0.003084	7	0.120459
			8	-0.002220	8	0.119344
			BIAS CORR	0.034707		
			VAR CORR	0.003447		0.223047

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				100.00		99.99
10	8	6	1	1.084231	2	0.392491
			2	-0.045894	4	0.223486
			3	-0.010368	5	0.142397
			4	-0.012059	6	0.131.27
			5	-0.009689	7	0.120487
			6	-0.002222	8	0.315651
			BIAS CORR	0.019787		
			VAR CORR	0.005449		0.224170
			EFFICIENCY	99.79		99.80
10	8	5	1	1.084519	2	0.393602
			2	-0.045407	4	0.310050
			3	-0.024096	5	0.185052
			4	-0.011481	6	0.121271
			5	-0.007029	7	0.317408
			BIAS CORR	0.016015		
			VAR CORR	0.005651		0.225479
			EFFICIENCY	99.96		99.50
10	8	4	1	1.085178	2	0.470102
			2	-0.051700	3	0.291973
			3	-0.021858	4	0.165017
			4	-0.005629	5	0.317762
			BIAS CORR	0.016776		
			VAR CORR	0.005454		0.225417
			EFFICIENCY	99.70		99.16
10	8	3	1	1.085775	2	0.936717
			2	-0.066586	3	0.321521
			3	-0.020128	4	0.360729
			BIAS CORR	0.019097		
			VAR CORR	0.002402		0.227833
			EFFICIENCY	99.75		98.21
10	8	2	1	1.060501	2	0.963878
			2	-0.060501	3	0.404949
			BIAS CORR	0.043471		
			VAR CORR	0.004604		0.232167
			EFFICIENCY	99.36		96.01

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
10	8	1	1	1.000000	1	0.602282
				BIAS CORR		
				VAR COEFF		0.266364
				EFFICIENCY		83.99
10	7	7	1	1.084232	1	0.264689
			2	-0.045886	2	0.223647
			3	-0.018374	3	0.198157
			4	-0.008761	4	0.178331
			5	-0.004801	5	0.163651
			6	-0.002777	6	0.150666
			7	-0.001430	7	0.135737
				BIAS CORR		
				VAR COEFF		0.299894
				EFFICIENCY		100.00
				EFF (7/5)		69.41
10	7	6	1	1.084257	2	0.322529
			2	-0.045887	3	0.198441
			3	-0.018380	4	0.178946
			4	-0.008761	5	0.163802
			5	-0.004844	6	0.150817
			7	-0.004421	7	0.136178
				BIAS CORR		
				VAR COEFF		0.296074
				EFFICIENCY		99.91
10	7	5	1	1.084527	3	0.480200
			2	-0.045901	4	0.296257
			3	-0.024040	5	0.164044
			5	-0.011102	6	0.151103
			7	-0.004427	7	0.136949
				BIAS CORR		
				VAR COEFF		0.296441
				EFFICIENCY		99.77
10	7	4	1	1.085110	3	0.451434
			2	-0.045700	4	0.363050
			4	-0.021858	6	0.211108
			7	-0.005620	7	0.152049

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR		
				VAR COEFF		0.257110
				EFFICIENCY		99.91
			1	1.086714	3	0.482804
			2	-0.066586	2	0.332730
			3	-0.020128	7	0.585372
				BIAS CORR		
				VAR COEFF		0.258351
				EFFICIENCY		99.64
10	7	2	1	1.060901	4	0.632439
			3	-0.060901	7	0.642403
				BIAS CORR		
				VAR COEFF		0.262134
				EFFICIENCY		97.61
		1	1	1.000000	7	0.896197
				BIAS CORR		
				VAR COEFF		0.283244
				EFFICIENCY		90.11
10	6	6	1	1.084540	1	0.304778
			2	-0.045909	2	0.262700
			3	-0.018380	3	0.231597
			4	-0.008974	4	0.210231
			5	-0.004811	5	0.192293
			6	-0.006463	6	0.035100
				BIAS CORR		
				VAR COEFF		0.298777
				EFFICIENCY		100.00
				EFFICIENCY		99.87
		5	1	1.084454	2	0.378996
			2	-0.045920	3	0.231704
			3	-0.018383	4	0.210316
			4	-0.012981	5	0.192444
			5	-0.008970	6	0.030200
				BIAS CORR		
				VAR COEFF		0.294074
				EFFICIENCY		99.90



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	1.085213	2	0.528111
			2	-0.045963	4	0.301476
			3	-0.028641	5	0.192829
			6	-0.010609	6	0.037732
			BIAS CORR		0.037631	
			VAR COEFF		0.005455	
			EFFICIENCY		99.94	
10	6	5	1	1.086714	2	0.530096
			2	-0.066586	4	0.427168
			3	-0.020129	5	0.912969
			BIAS CORR		0.039097	
			VAR COEFF		0.005462	
			EFFICIENCY		99.79	
					0.300507	
10	6	7	1	1.060501	2	0.721523
			3	-0.060501	4	0.487302
			BIAS CORR		0.043471	
			VAR COEFF		0.005484	
			EFFICIENCY		99.46	
					0.302362	
					98.49	
10	6	8	1	1.060000	2	1.204755
			BIAS CORR		0.058265	
			VAR COEFF		0.005540	
			EFFICIENCY		97.52	
					0.310044	
					93.93	
10	5	5	1	1.045121	1	0.374710
			2	-0.045941	2	0.317970
			3	-0.010410	3	0.281336
			4	-0.008991	4	0.254426
			5	-0.011777	5	1.311829
			BIAS CORR		0.018579	
			VAR COEFF		0.005454	
			EFFICIENCY		100.00	
			EFF (%)		100.00	
					41.83	
10	5	4	1	1.045152	2	0.457277
			2	-0.045956	3	0.281861
			3	-0.024144	4	0.254827
			4	-0.015251	5	1.311504

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
10	5	3	1	1.086714	2	0.638869
			2	-0.066586	4	0.365491
			5	-0.020124	5	1.316309
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
10	5	2	1	1.060501	2	0.684426
			3	-0.060501	5	1.422189
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
10	5	1	1	1.070000	5	1.716048
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
10	4	4	1	1.086754	1	0.672677
			2	-0.046024	2	0.401686
			3	-0.010455	3	0.395931
			4	-0.021778	4	2.098854
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF (M/P)		
10	4	3	1	1.086856	2	0.578849
			2	-0.057856	3	0.351652
			4	-0.029002	4	2.102332
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
10	4	2	1	1.060501	2	0.809117
			3	-0.060501	4	3.247442
				BIAS CORR		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
10	4	1		VAR COEFF EFFICIENCY		0.451451 99.99
			1	1.000000	4	2.531155
				BIAS CORR VAR COEFF EFFICIENCY		0.055265 0.452756 98.00
10	3	3	1	1.000000	1	0.641210
			2	-0.046191	2	0.543394
			3	-0.042428	3	3.552954
				BIAS CORR VAR COEFF EFFICIENCY		0.043144 0.055472 100.00
				EFFICIENCY		99.96 29.76
10	3	1	1	1.000001	2	0.786150
			2	-0.060501	3	3.561217
				BIAS CORR VAR COEFF EFFICIENCY		0.043471 0.055484 99.78
						0.602447 99.78
10	3	1	1	1.000000	2	3.996789
				BIAS CORR VAR COEFF EFFICIENCY		0.055265 0.055590 97.89
						0.607036 99.03
10	2	2	1	1.004201	1	0.990135
			2	-0.044201	2	6.819301
				BIAS CORR VAR COEFF EFFICIENCY		0.047413 0.055501 100.00
				EFFICIENCY		100.00 19.74
10	2	1	1	1.000000	2	7.214049
				BIAS CORR VAR COEFF EFFICIENCY		0.055265 0.055590 98.41
						0.905203 99.66
10	1	1	1	1.000000	1	18.094772
				BIAS CORR		0.055265



TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	1.000000	1	0.500000
			2	-0.	2	0.500000
				BIAS CORR		0.500000
				VAR COEFF		0.500000
				EFFICIENCY		100.00
2	2	1	1	1.000000	2	0.666667
				BIAS CORR		0.555556
				VAR COEFF		90.00
				EFFICIENCY		100.00
				EFF (M/N)		100.00
2	1	1	1	1.000000	1	2.000000
				BIAS CORR		1.000000
				VAR COEFF		100.00
				EFFICIENCY		50.00
				EFF (M/N)		100.00
3	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	0.333333
				BIAS CORR		0.333333
				VAR COEFF		0.333333
3	3	2	1	1.000000	2	0.447368
			3	-0.	3	0.342105
				BIAS CORR		0.342105
				VAR COEFF		97.44
				EFFICIENCY		100.00
3	3	1	1	1.000000	2	0.545455
				BIAS CORR		0.404759
				VAR COEFF		82.31
				EFFICIENCY		100.00
				EFF (M/N)		100.00
3	2	2	1	1.000000	1	0.500000
			2	-0.	2	1.000000
				BIAS CORR		0.500000
				VAR COEFF		0.500000
				EFFICIENCY		100.00

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		55.67
3	2	1	1	1.000000	2	1.200000
				BIAS CORR		
				0.333333		
				VAR COEFF		0.520000
				0.111111		96.15
				EFFICIENCY		100.00
3	1	1	1	1.000000	1	3.000000
				BIAS CORR		
				0.333333		
				VAR COEFF		1.000000
				0.111111		100.00
				EFFICIENCY		100.00
				EFF(M/N)		33.33
4	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	0.	3	0.250000
			4	-0.	4	0.250000
				BIAS CORR		
				0.250000		
				VAR COEFF		0.250000
				0.062500		100.00
				EFFICIENCY		100.00
				EFF(M/N)		100.00
4	4	3	1	1.000000	2	0.343434
			2	0.	3	0.252525
			3	-0.	4	0.252525
				BIAS CORR		
				0.250000		
				VAR COEFF		0.252525
				0.062500		99.00
				EFFICIENCY		100.00
4	4	2	1	1.000000	3	0.413043
			2	0.	4	0.265217
				BIAS CORR		
				0.250000		
				VAR COEFF		0.265217
				0.062500		94.26
				EFFICIENCY		100.00
4	4	1	1	1.000000	4	0.480000
				BIAS CORR		
				0.250000		
				VAR COEFF		0.320000
				0.062500		76.22
				EFFICIENCY		100.00

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE	
4	3	3	1	1.000000	1	0.333333	
			2	0.	2	0.333333	
			3	-0.	3	0.666667	
		BIAS CORR		0.250000			
		VAR COEFF		0.062500		0.333333	
		EFFICIENCY		100.00		100.00	
		EFF (M/N)		100.00		75.00	
4	3	2	1	1.000000	2	0.459460	
			2	0.	3	0.675676	
			BIAS CORR		0.250000		
		VAR COEFF		0.062500		0.337838	
		EFFICIENCY		100.00		98.67	
4	3	1	1	1.000000	2	0.923077	
			BIAS CORR		0.250000		
			VAR COEFF		0.062500		0.360947
			EFFICIENCY		100.00		92.35
4	2	2	1	1.000000	1	0.500000	
			2	0.	2	1.500000	
			BIAS CORR		0.250000		
		VAR COEFF		0.062500		0.500000	
		EFFICIENCY		100.00		100.00	
		EFF (M/N)		100.00		50.00	
4	2	1	1	1.000000	2	1.714286	
			BIAS CORR		0.250000		
			VAR COEFF		0.062500		0.510204
			EFFICIENCY		100.00		98.00
4	1	1	1	1.000000	1	4.000000	
			BIAS CORR		0.250000		
			VAR COEFF		0.062500		1.000000
			EFFICIENCY		100.00		100.00
			EFF (M/N)		100.00		25.00
5	5	5	1	1.000000	1	0.200000	
			2	0.	2	0.200000	
			3	-0.	3	0.200000	
			4	0.	4	0.200000	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
5	5	4	5	-0.	5	0.200000
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.200000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
		3	1	1.000000	2	0.279412
			3	0.	3	0.200980
			4	-0.	4	0.200980
			5	-0.	5	0.200980
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.200980
			EFFICIENCY	100.00		99.51
5	5	2	1	1.000000	2	0.425125
			2	0.	4	0.266948
			3	-0.	5	0.204136
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.204136
			EFFICIENCY	100.00		97.97
		1	1	1.000000	3	0.527997
			4	0.	5	0.256818
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.214015
			EFFICIENCY	100.00		91.45
5	5	1	1	1.000000	5	0.437356
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.280729
			EFFICIENCY	100.00		71.24
		4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	3	0.250000
			4	-0.	4	0.500000
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.250000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		80.00



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	1.000000	2	0.349653
			2	0.	3	0.251534
			3	-0.	4	0.503067
		BIAS CORR		0.200000		
				0.040000		0.251534
				100.00		99.39
		VAR CCEFF				
5	4	2	1	1.000000	2	0.534168
			4	0.	4	0.591915
				0.200000		
		BIAS CORR		0.040000		0.256497
				100.00		97.47
		VAR CCEFF				
5	4	1	1	1.000000	4	0.779221
				0.200000		
				0.040000		0.281498
		BIAS CORR		100.00		88.81
		VAR CCEFF				
5	3	2	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	1.000000
		BIAS CORR		0.200000		
				0.040000		0.333333
				100.00		100.00
		EFF(M/N)		100.00		60.00
5	3	2	1	1.000000	2	0.467213
			2	-0.	3	1.008197
				0.200000		
		BIAS CORR		0.040000		0.336066
				100.00		99.19
		VAR CCEFF				
5	3	1	1	1.000000	3	1.276555
				0.200000		
				0.040000		0.348121
		BIAS CORR		100.00		95.75
		VAR CCEFF				
5	2	2	1	1.000000	1	0.500000
			2	-0.	2	2.000000
				0.200000		
		BIAS CORR		0.040000		0.500000
		VAR CCEFF				

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		40.00
5	2	1	1	1.000000	2	2.222222
				BIAS CORR		0.200000
				VAR CCEFF		0.040000
				EFFICIENCY		100.00
5	1	1	1	1.000000	1	5.000000
				BIAS CORR		0.200000
				VAR CCEFF		0.040000
				EFFICIENCY		100.00
				EFF(M/N)		20.00
6	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	0.	3	0.166667
			4	0.	4	0.166667
			5	-0.	5	0.166667
			6	-0.	6	0.166667
				BIAS CORR		0.166667
				VAR CCEFF		0.027778
				EFFICIENCY		100.00
				EFF(M/N)		100.00
6	6	5	1	1.000000	2	0.235616
			2	0.	3	0.167123
			3	0.	4	0.167123
			4	0.	5	0.167123
			5	-0.	6	0.167123
				BIAS CORR		0.166667
				VAR CCEFF		0.027778
				EFFICIENCY		100.00
6	6	4	1	1.000000	2	0.344981
			2	0.	4	0.228817
			3	0.	5	0.168248
			4	-0.	6	0.168248
				BIAS CORR		0.166667
				VAR CCEFF		0.027778
				EFFICIENCY		100.00
						99.06

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
6	6	3	1	1.000000	2	0.415228
			2	0.	3	0.223841
			3	-0.	6	0.171173
			BIAS CORR			
			0.166667			
			VAR CCEFF			0.171173
			0.027778			
			EFFICIENCY			97.37
			100.00			
6	6	2	1	1.000000	4	0.492892
			2	-0.	6	0.216654
			BIAS CORR			
			0.166667			
			VAR CCEFF			0.180545
			0.027778			
			EFFICIENCY			92.31
			100.00			
6	6	1	1	1.000000	5	0.689655
			BIAS CORR			
			0.166667			
			VAR CCEFF			0.233716
			0.027778			
			EFFICIENCY			71.31
			100.00			
6	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	0.	3	0.200000
			4	0.	4	0.200000
			5	-0.	5	0.400000
			BIAS CORR			
			0.166667			
			VAR CCEFF			0.200000
			0.027778			
			EFFICIENCY			100.00
			EFF(M/N)			83.33
			100.00			
6	5	4	1	1.000000	2	0.282895
			2	0.	3	0.200658
			3	0.	4	0.200658
			4	-0.	5	0.401316
			BIAS CORR			
			0.166667			
			VAR CCEFF			0.200658
			0.027778			
			EFFICIENCY			99.67
			100.00			
6	5	3	1	1.000000	2	0.414644
			2	0.	4	0.275103
			3	-0.	5	0.404563
			BIAS CORR			
			0.166667			

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.202281 98.87
6	5	2	1	1.000000	3	0.500982
			2	-0.	5	0.476594
				BIAS CORR		
				0.166667		
				VAR CCEFF		0.206524
				EFFICIENCY		96.84
6	5	1	1	1.000000	5	0.689655
				BIAS CORR		
				0.166667		
				VAR CCEFF		0.232716
				EFFICIENCY		85.57
6	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	0.	3	0.250000
			4	-0.	4	0.750000
				BIAS CORR		
				0.166667		
				VAR CCEFF		0.250000
				EFFICIENCY		100.00
				EFF(M/N)		66.67
6	4	3	1	1.000000	2	0.353910
			2	0.	3	0.251029
			3	-0.	4	0.753086
				BIAS CORR		
				0.166667		
				VAR CCEFF		0.251029
				EFFICIENCY		99.59
6	4	2	1	1.000000	2	0.519787
			2	-0.	4	0.852012
				BIAS CORR		
				0.166667		
				VAR CCEFF		0.253575
				EFFICIENCY		98.59
6	4	1	1	1.000000	4	1.052632
				BIAS CORR		
				0.166667		
				VAR CCEFF		0.267467
				EFFICIENCY		93.47

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	1.333333
		BIAS CORR		0.166667		
				0.027778		0.333333
				100.00		100.00
				100.00		-50.00
6	3	2	1	1.000000	2	0.472528
			2	-0.	3	1.340659
				0.166667		
		BIAS CORR		0.027778		0.335165
				100.00		99.45
6	3	1	1	1.000000	3	1.621622
				0.166667		
				0.027778		0.342586
		BIAS CORR		100.00		97.30
6	2	2	1	1.000000	1	0.500000
			2	-0.	2	2.500000
				0.166667		
		BIAS CORR		0.027778		0.500000
				100.00		100.00
				100.00		33.33
6	2	1	1	1.000000	2	2.727273
				0.166667		
				0.027778		0.504132
		BIAS CORR		100.00		99.18
6	1	1	1	1.000000	1	6.000000
				0.166667		
				0.027778		1.000000
		BIAS CORR		100.00		100.00
				100.00		16.67
7	7	7	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	0.	3	0.142857
			4	0.	4	0.142857

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			5	-0.	5	0.142857
			6	-0.	6	0.142857
			7	0.	7	0.142857
				BIAS CORR		0.142857
				VAR COEFF		0.070408
				EFFICIENCY		100.00
				EFF (M/N)		100.00
	7	6	1	1.000000	2	0.203704
			2	0.	3	0.143098
			3	0.	4	0.143098
			4	-0.	5	0.143098
			5	0.	6	0.143098
			6	0.	7	0.143098
				BIAS CORR		0.143098
				VAR COEFF		0.070408
				EFFICIENCY		99.93
7	7	5	1	1.000000	2	0.241977
			2	0.	3	0.143599
			3	0.	4	0.143599
			4	-0.	5	0.143599
			5	0.	6	0.143599
			6	0.	7	0.143599
				BIAS CORR		0.143599
				VAR COEFF		0.070408
				EFFICIENCY		99.44
7	7	4	1	1.000000	2	0.350211
			2	0.	3	0.144849
			3	0.	4	0.144849
			4	-0.	5	0.144849
				BIAS CORR		0.144849
				VAR COEFF		0.070408
				EFFICIENCY		98.63
7	7	3	1	1.000000	4	0.404767
			2	0.	5	0.146117
			3	-0.	6	0.146117
			4	0.	7	0.146117
				BIAS CORR		0.146117
				VAR COEFF		0.070408
				EFFICIENCY		98.45

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
7	7	2	1	1.000000	5	0.467528
			5	0.	7	0.188618
			BIAS CORR	0.142857		
			VAR COEFF	0.020408		0.157182
			EFFICIENCY	100.00		90.84
7	7	1	1	1.000000	6	0.627803
			BIAS CORR	0.142857		
			VAR COEFF	0.020408		0.201118
			EFFICIENCY	100.00		70.82
7	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	0.	3	0.166667
			4	0.	4	0.166667
			5	-0.	5	0.166667
				0.	6	0.333333
			BIAS CORR	0.142857		
			VAR COEFF	0.020408		0.166667
			EFFICIENCY	100.00		100.00
			EFF (M/N)	100.00		85.71
7	6	5	1	1.000000	2	0.237721
			2	0.	3	0.166994
			3	0.	4	0.166994
			4	0.	5	0.166994
			5	-0.	6	0.333988
			BIAS CORR	0.142857		
			VAR COEFF	0.020408		0.166994
			EFFICIENCY	100.00		99.80
7	6	4	1	1.000000	2	0.340935
			2	0.	4	0.233112
			3	0.	5	0.167677
			5	-0.	6	0.335354
			BIAS CORR	0.142857		
			VAR COEFF	0.020408		0.167677
			EFFICIENCY	100.00		99.40
7	6	3	1	1.000000	3	0.405529

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			3	0.	5	0.230354
			4	-0.	6	0.338757
				0.142857		
				0.020408		0.169378
				100.00		98.40
7	6	2	1	1.000000	4	0.475144
			5	0.	6	0.401239
				0.142857		
				0.020408		0.173870
				100.00		95.86
7	6	3	1	1.000000	6	0.627803
				0.142857		
				0.020408		0.201718
				100.00		82.62
7	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	0.	3	0.200000
			4	0.	4	0.200000
			5	-0.	5	0.600000
				0.142857		
				0.020408		0.200000
				100.00		100.00
				100.00		71.43
7	5	4	1	1.000000	2	0.285377
			2	0.	3	0.200472
			3	0.	4	0.200472
			5	-0.	5	0.601415
				0.142857		
				0.020408		0.200472
				100.00		99.76
7	5	3	1	1.000000	2	0.409619
			3	0.	4	0.280074
			4	-0.	5	0.604370
				0.142857		
				0.020408		0.201457
				100.00		99.28



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	1.000000	2	0.493039
			5	0.	5	0.685163
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.203917
			EFFICIENCY	100.00		98.08
7	5	1	1	1.000000	5	0.915033
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.219199
			EFFICIENCY	100.00		91.24
7	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	0.	3	0.250000
			4	-0.	4	1.000000
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.250000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		57.14
7	4	3	1	1.000000	2	0.356932
			3	0.	3	0.250737
			4	-0.	4	1.002950
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.250737
			EFFICIENCY	100.00		99.71
7	4	2	1	1.000000	2	0.512958
			2	0.	4	1.107572
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.252280
			EFFICIENCY	100.00		99.10
7	4	1	1	1.000000	4	1.316614
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.261210
			EFFICIENCY	100.00		95.71
7	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
7	3	2	3	-0.	3	1.666667
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.333333
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		42.86
7	3	2	1	1.000000	2	0.476378
			2	0.	3	1.673228
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.334646
			EFFICIENCY	100.00		99.61
7	3	1	1	1.000000	2	1.962617
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.339680
			EFFICIENCY	100.00		98.13
7	2	2	1	1.000000	1	0.500000
			2	0.	2	3.000000
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.500000
			EFFICIENCY	100.00		100.00
7	2	1	1	1.000000	2	3.230769
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.502959
			EFFICIENCY	100.00		99.41
7	1	1	1	1.000000	1	7.000000
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		1.000000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		14.29
8	8	8	1	1.000000	1	0.125000
			2	0.	2	0.125000
			3	-0.	3	0.125000
			4	0.	4	0.125000
			5	-0.	5	0.125000
			6	-0.	6	0.125000

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
8	8	7	7	0.	7	0.125000
			8	0.	8	0.125000
			BIAS CORR			
				0.125000		
			VAR CCEFF			0.125000
				0.015625		
			EFFICIENCY			100.00
				100.00		
			EFF(M/N)			100.00
				100.00		
8	8	6	1	1.000000	2	0.179402
			2	0.	3	0.125138
			3	-0.	4	0.125138
			4	0.	5	0.125138
			5	-0.	6	0.125138
			6	-0.	7	0.125138
			7	0.	8	0.125138
			BIAS CORR			
				0.125000		
			VAR CCEFF			0.125138
8	8	5	1	1.000000	2	0.253775
			2	0.	4	0.176787
			3	-0.	5	0.125396
			4	0.	6	0.125396
			5	-0.	7	0.125396
			6	0.	8	0.125396
			BIAS CORR			
				0.125000		
			VAR CCEFF			0.125396
				0.015625		
8	8	4	1	1.000000	2	0.255054
			2	0.	4	0.258336
			3	-0.	6	0.171398
			4	0.	7	0.126028
			5	-0.	8	0.126028
			BIAS CORR			
				0.125000		
			VAR CCEFF			0.126028
				0.015625		
			EFFICIENCY			99.18
8	8	4	1	1.000000	2	0.307894
			2	0.	5	0.265037
			3	-0.	7	0.166424
			4	0.	8	0.127265

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
8	8	3	1	1.000000	4	0.464763
			2	0.	7	0.203608
			3	0.	8	0.130738
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
8	8	2	1	1.000000	5	0.553625
			2	0.	8	0.187760
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
8	8	1	1	1.000000	7	0.582121
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
8	7	7	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	-0.	3	0.142857
			4	0.	4	0.142857
			5	-0.	5	0.142857
			6	-0.	6	0.142857
			7	0.	7	0.285714
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
				EFF(M/N)		87.50
8	7	6	1	1.000000	2	0.205063
			2	0.	3	0.143038
			3	-0.	4	0.143038
			4	0.	5	0.143038
			5	-0.	6	0.143038
			6	0.	7	0.286076
				BIAS CORR		0.125000

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		
				0.015625 100.00		0.143038 99.87
8	7	5	1	1.000000	2	0.290160
			2	0.	4	0.202134
			3	-0.	5	0.143374
			4	0.	6	0.143374
			5	-0.	7	0.286748
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.143374
				0.015625		99.64
				EFFICIENCY		
				100.00		
8	7	4	1	1.000000	2	0.291833
			2	0.	4	0.295589
			3	-0.	6	0.196114
			4	0.	7	0.288402
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.144201
				0.015625		99.07
				EFFICIENCY		
				100.00		
8	7	3	1	1.000000	2	0.352752
			2	0.	5	0.303685
			3	0.	7	0.376516
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.145824
				0.015625		97.97
				EFFICIENCY		
				100.00		
8	7	2	1	1.000000	4	0.534664
			2	0.	7	0.384632
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.150401
				0.015625		94.98
				EFFICIENCY		
				100.00		
8	7	1	1	1.000000	7	0.582121
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.178725
				0.015625		79.93
				EFFICIENCY		
				100.00		
8	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			4	0.	4	0.166667
			5	-0.	5	0.166667
			6	0.	6	0.500000
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.166667
				0.015625		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		75.00
8	6	5	1	1.000000	2	0.239291
			2	0.	3	0.166913
			3	-0.	4	0.166913
			4	0.	5	0.166913
			5	-0.	6	0.500739
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.166913
				0.015625		
				EFFICIENCY		99.85
				100.00		
8	6	4	1	1.000000	2	0.338724
			2	0.	4	0.235965
			3	-0.	5	0.167371
			4	0.	6	0.502112
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.167371
				0.015625		
				EFFICIENCY		99.58
				100.00		
8	6	3	1	1.000000	2	0.341007
			2	0.	4	0.345395
			3	0.	6	0.566156
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.168499
				0.015625		
				EFFICIENCY		98.91
				100.00		
8	6	2	1	1.000000	4	0.471414
			2	0.	6	0.575500
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.171280
				0.015625		
				EFFICIENCY		97.31
				100.00		
8	6	1	1	1.000000	6	0.821114
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.187046
				0.015625		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				100.00		89.10
			EFFICIENCY	100.00		
8	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	-0.	3	0.200000
			4	0.	4	0.200000
			5	-0.	5	0.800000
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.200000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		62.50
8	5	4	1	1.000000	2	0.287234
			2	0.	3	0.200355
			3	-0.	4	0.200355
			4	0.	5	0.801418
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.200355
			EFFICIENCY	100.00		99.82
8	5	3	1	1.000000	2	0.406912
			2	0.	4	0.282358
			3	0.	5	0.804059
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.201015
			EFFICIENCY	100.00		99.50
8	5	2	1	1.000000	2	0.490282
			2	0.	5	0.889700
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.202654
			EFFICIENCY	100.00		98.69
8	5	1	1	1.000000	5	1.130552
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.212570
			EFFICIENCY	100.00		94.09
8	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	3	0.250000

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
8	4	3	4	0.	4	1.250000
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.250000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		50.00
			1	1.000000	2	0.359202
			2	0.	3	0.250554
			3	0.	4	1.252772
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.250554
8	4	2	1	1.000000	2	0.509161
			2	0.	4	1.361048
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.251588
			EFFICIENCY	100.00		99.37
		1	1	1.000000	4	1.575985
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.257838
			EFFICIENCY	100.00		96.96
			1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	0.	3	2.000000
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.333333
			EFFICIENCY	100.00		100.00
8	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	0.	3	2.000000
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.333333
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		37.50
		2	1	1.000000	2	0.479290
			2	0.	3	2.005917
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.334320
			EFFICIENCY	100.00		99.71
8	3	1	1	1.000000	3	2.301370
			BIAS CORR	0.125000		
			VAR CCEFF	0.015625		0.337962



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		98.63
				100.00		
8	2	2	1	1.000000	1	0.500000
			2	0.	2	3.500000
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.500000
				0.015625		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		25.00
				100.00		
8	2	1	1	1.000000	2	3.733333
				BIAS CORR		
				0.125000		
				VAR CCEFF		0.502222
				0.015625		
				EFFICIENCY		99.56
				100.00		
8	1	1	1	1.000000	1	8.000000
				BIAS CORR		
				0.125000		
				VAR CCEFF		1.000000
				0.015625		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		12.50
				100.00		
9	9	9	1	1.000000	1	0.111111
			2	0.	2	0.111111
			3	-0.	3	0.111111
			4	-0.	4	0.111111
			5	0.	5	0.111111
			6	-0.	6	0.111111
			7	0.	7	0.111111
			8	-0.	8	0.111111
			9	0.	9	0.111111
				BIAS CORR		
				0.111111		
				VAR CCEFF		0.111111
				0.012346		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
9	9	8	1	1.000000	2	0.160276
			3	0.	2	0.111196
			4	-0.	4	0.111196
			5	0.	5	0.111196
			6	0.	6	0.111196
			7	-0.	7	0.111196
			8	0.	8	0.111196

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
9	9	7	1	1.000000	2	0.224671
			3	0.	4	0.158499
			4	-0.	5	0.111342
			5	0.	6	0.111342
			7	-0.	7	0.111342
			8	0.	8	0.111342
			9	-0.	9	0.111342
			BIAS CORR	0.111111		
			VAR COEFF	0.012346		0.111342
			EFFICIENCY	100.00		99.92
9	9	6	1	1.000000	2	0.225283
			3	0.	4	0.227007
			4	-0.	5	0.155214
			5	0.	6	0.111645
			7	0.	7	0.111645
			8	-0.	8	0.111645
			9	-0.	9	0.111645
			BIAS CORR	0.111111		
			VAR COEFF	0.012346		0.111645
			EFFICIENCY	100.00		99.92
9	9	5	1	1.000000	2	0.271732
			3	0.	4	0.230003
			4	-0.	5	0.192600
			5	0.	6	0.112206
			6	-0.	7	0.112206
			7	-0.	8	0.112206
			8	0.	9	0.112206
			BIAS CORR	0.111111		
			VAR COEFF	0.012346		0.112206
			EFFICIENCY	100.00		99.02
9	9	4	1	1.000000	2	0.351033
			3	-0.	4	0.275324
			5	0.	5	0.148422
			6	-0.	6	0.111499
			7	0.	7	0.111499
			8	0.	8	0.111499
			9	0.	9	0.111499
			BIAS CORR	0.111111		
			VAR COEFF	0.012346		0.111499
			EFFICIENCY	100.00		99.02

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				100.00		97.90
			EFFICIENCY			
4	3	3	1	1.000000	4	0.407551
			2	0.	7	0.287479
			4	-0.	9	0.139830
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.116525
			EFFICIENCY	100.00		95.35
4	4	2	1	1.000000	6	0.527062
			2	-0.	5	0.167990
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.124720
			EFFICIENCY	100.00		89.09
4	9	1	1	1.000000	8	0.546756
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.161360
			EFFICIENCY	100.00		68.86
4	8	3	1	1.000000	1	0.125000
			2	0.	2	0.125000
			3	-0.	3	0.125000
			4	-0.	4	0.125000
			5	0.	5	0.125000
			6	-0.	6	0.125000
			7	0.	7	0.125000
			8	-0.	8	0.250000
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.125000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		88.89
4	8	7	1	1.000000	2	0.180328
			3	0.	3	0.125108
			4	-0.	4	0.125108
			5	0.	5	0.125108
			6	0.	6	0.125108
			7	-0.	7	0.125108
			8	0.	8	0.250216
			BIAS CORR	0.111111		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				0.012346		0.125108
				100.00		99.91
9	8	6	1	1.000000	2	0.252821
			2	0.	4	0.178357
			3	-0.	5	0.125292
			4	0.	6	0.125292
			7	0.	7	0.125292
			8	-0.	8	0.250584
				0.111111		
				0.012346		0.125292
				100.00		99.77
9	8	5	1	1.000000	2	0.253596
			3	0.	4	0.255536
			4	-0.	6	0.174721
			5	0.	7	0.125676
			6	-0.	8	0.251353
				0.111111		
				0.012346		0.125676
				100.00		99.46
9	8	4	1	1.000000	3	0.306301
			3	-0.	5	0.259073
			5	0.	7	0.171897
			6	-0.	8	0.252774
				0.111111		
				0.012346		0.126387
				100.00		98.90
9	8	3	1	1.000000	3	0.396878
			2	0.	6	0.310574
			4	-0.	8	0.295455
				0.111111		
				0.012346		0.128020
				100.00		97.63
9	8	2	1	1.000000	5	0.511036
			2	-0.	6	0.338417
				0.111111		
				0.012346		0.132330

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				100.00		94.46
			EFFICIENCY			
9	8	1	1	1.000000	8	0.546756
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.161360
			EFFICIENCY	100.00		77.47
9	7	7	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	-0.	3	0.142857
			4	-0.	4	0.142857
			5	0.	5	0.142857
			6	-0.	6	0.142857
			7	-0.	7	0.428571
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.142857
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		77.73
9	7	6	1	1.000000	2	0.206114
			3	0.	3	0.142998
			4	-0.	4	0.142998
			5	0.	5	0.142998
			6	0.	6	0.142998
			7	-0.	7	0.428994
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.142998
			EFFICIENCY	100.00		99.90
9	7	5	1	1.000000	2	0.289035
			3	0.	4	0.203905
			4	-0.	5	0.143239
			5	0.	6	0.143239
			6	-0.	7	0.429717
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.143239
			EFFICIENCY	100.00		99.73
9	7	4	1	1.000000	2	0.290048
			3	-0.	4	0.292267
			5	0.	6	0.199835

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			6	-0.	7	0.431224
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.143741
			EFFICIENCY	100.00		99.38
9	7	3	1	1.000000	3	0.350614
			2	0.	5	0.296554
			4	-0.	7	0.486097
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.144672
			EFFICIENCY	100.00		98.75
9	7	2	1	1.000000	4	0.515722
			2	-0.	7	0.540723
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.147453
			EFFICIENCY	100.00		96.89
9	7	1	1	1.000000	7	0.752463
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.164067
			EFFICIENCY	100.00		87.07
9	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667
			4	-0.	4	0.166667
			5	0.	5	0.166667
			6	-0.	6	0.666667
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.166667
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		66.67
9	6	5	1	1.000000	2	0.240906
			3	0.	3	0.166858
			4	-0.	4	0.166858
			5	0.	5	0.166858
			6	-0.	6	0.667434
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.166858

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				100.00		99.89
			EFFICIENCY			
9	6	4	1	1.000000	2	0.337358
			3	-0.	4	0.257995
			5	0.	5	0.167187
			6	-0.	6	0.668367
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.167187
			EFFICIENCY	100.00		99.69
9	6	3	1	1.000000	2	0.338739
			2	0.	4	0.341330
			4	-0.	6	0.736955
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.167871
			EFFICIENCY	100.00		99.28
9	6	2	1	1.000000	3	0.526511
			2	-0.	6	0.803978
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.169849
			EFFICIENCY	100.00		98.13
9	6	1	1	1.000000	6	1.004384
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.180227
			EFFICIENCY	100.00		92.48
9	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	-0.	3	0.200000
			4	-0.	4	0.200000
			5	0.	5	1.000000
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.200000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		55.5
9	5	4	1	1.000000	2	0.288674
			3	0.	3	0.200276
			4	-0.	4	0.200276

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			5	0.	5	1.001381
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.200276
			EFFICIENCY	100.00		99.86
9	5	3	1	1.000000	2	0.405082
			2	0.	4	0.285772
			4	-0.	5	1.003746
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.200749
			EFFICIENCY	100.00		99.63
9	5	2	1	1.000000	3	0.489381
			2	-0.	5	1.092412
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.201931
			EFFICIENCY	100.00		99.04
9	5	1	1	1.000000	5	1.341139
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.208926
			EFFICIENCY	100.00		95.73
9	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	3	0.250000
			4	-0.	4	1.500000
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.250000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		44.44
9	4	3	1	1.000000	2	0.360967
			2	0.	3	0.250432
			4	-0.	4	1.502591
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.250432
			EFFICIENCY	100.00		99.83
9	4	2	1	1.000000	2	0.506827
			2	-0.	4	1.613409



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.251172
				EFFICIENCY	100.00	99.53
9	4	1	1	1.000000	4	1.832727
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.255802
				EFFICIENCY	100.00	97.73
9	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	2.333333
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.333333
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	33.33
9	3	2	1	1.000000	2	0.481567
			2	-0.	1	2.338710
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.334101
				EFFICIENCY	100.00	99.77
9	3	1	1	1.000000	3	2.638743
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.336860
				EFFICIENCY	100.00	98.95
9	2	2	1	1.000000	1	0.500000
			2	-0.	2	4.000000
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.500000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	22.22
9	2	1	1	1.000000	2	4.235254
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.501730
				EFFICIENCY	100.00	99.66
9	1	1	1	1.000000	1	9.000000

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.111111		
				0.012346		1.000000
				100.00		100.00
				100.00		11.11
10	10	10	1	1.000000	1	0.100000
			2	0.	2	0.100000
			3	0.	3	0.100000
			4	-0.	4	0.100000
			5	0.	5	0.100000
			6	0.	6	0.100000
			7	-0.	7	0.100000
			8	0.	8	0.100000
			9	-0.	9	0.100000
			10	-0.	10	0.100000
				BIAS CORR		
				0.100000		
				0.010000		0.100000
				100.00		100.00
				100.00		100.00
10	10	9	1	1.000000	2	0.144831
			2	0.	3	0.100055
			3	-0.	4	0.100055
			4	-0.	5	0.100055
			6	0.	6	0.100055
			7	-0.	7	0.100055
			8	0.	8	0.100055
			9	-0.	9	0.100055
			10	-0.	10	0.100055
				BIAS CORR		
				0.100000		
				0.010000		0.100055
				100.00		99.94
10	10	8	1	1.000000	2	0.201678
			2	0.	4	0.143569
			3	-0.	5	0.100144
			4	-0.	6	0.100144
			6	0.	7	0.100144
			7	-0.	8	0.100144
			8	0.	9	0.100144
			9	-0.	10	0.100144

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
10	10	7		BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.100144
				EFFICIENCY	100.00	99.86
			1	1.000000	2	0.202017
			2	0.	4	0.203004
			3	-0.	6	0.141419
			4	-0.	7	0.100309
			6	0.	8	0.100309
			7	-0.	9	0.100309
			9	-0.	10	0.100309
10	10	6		BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.100309
				EFFICIENCY	100.00	99.67
			1	1.000000	3	0.244322
			2	0.	5	0.204575
			3	-0.	7	0.139877
			4	-0.	8	0.100613
			6	0.	9	0.100613
			7	-0.	10	0.100613
				BIAS CORR	0.100000	
10	10	5		VAR CCEFF	0.010000	0.100613
				EFFICIENCY	100.00	99.39
			1	1.000000	3	0.311163
			4	0.	6	0.244741
			5	0.	8	0.137664
			7	0.	9	0.101223
			9	-0.	10	0.101223
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.101223
				EFFICIENCY	100.00	98.79
10	10	4		BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.102336
				EFFICIENCY	100.00	97.72
			1	1.000000	4	0.355209
			2	0.	7	0.248245
			3	-0.	9	0.133824
			5	-0.	10	0.102336
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.102336
				EFFICIENCY	100.00	97.72

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	1.000000	5	0.402347
			2	0.	8	0.259400
			3	-0.	10	0.126173
		BIAS CORR		0.100000		
				0.010000		0.105144
				100.00		95.11
10	10	2	1	1.000000	7	0.505032
			3	0.	10	0.152501
		BIAS CORR		0.100000		
				0.010000		0.113220
				100.00		88.32
10	10	1	1	1.000000	6	0.695806
				0.100000		
				0.010000		0.146805
		BIAS CORR		100.00		68.12
10	9	9	1	1.000000	1	0.111111
			2	0.	2	0.111111
			3	-0.	3	0.111111
			4	-0.	4	0.111111
			5	0.	5	0.111111
			6	0.	6	0.111111
			7	-0.	7	0.111111
			8	0.	8	0.111111
			9	-0.	9	0.222222
		BIAS CORR		0.100000		
				0.010000		0.111111
				100.00		100.00
		EFF(M/N)		100.00		90.00
10	9	8	1	1.000000	2	0.160934
			2	0.	3	0.111179
			3	-0.	4	0.111179
			4	-0.	5	0.111179
			6	0.	6	0.111179
			7	-0.	7	0.111179
			8	0.	8	0.111179
			9	-0.	9	0.222359

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
10	9	7		BIAS CORR		
				VAR CCEFF		0.111179
				EFFICIENCY		99.94
			1	1.000000	2	0.224123
			2	0.	4	0.159547
			3	-0.	5	0.111289
			4	-0.	6	0.111289
			6	0.	7	0.111289
			7	-0.	8	0.111289
			9	-0.	9	0.222578
				BIAS CORR		
				VAR CCEFF		0.111289
				EFFICIENCY		99.84
10	9	6	1	1.000000	2	0.224533
			2	0.	4	0.225637
			3	-0.	6	0.157186
			4	-0.	7	0.111492
			6	0.	8	0.111492
			7	-0.	9	0.222985
				BIAS CORR		
				VAR CCEFF		0.111492
				EFFICIENCY		99.66
10	9	5	1	1.000000	2	0.271654
			4	0.	5	0.227461
			5	0.	7	0.155525
			7	0.	8	0.111869
			9	-0.	9	0.223737
				BIAS CORR		
				VAR CCEFF		0.111869
				EFFICIENCY		99.32
10	9	4	1	1.000000	2	0.346207
			2	0.	6	0.272305
			3	-0.	8	0.153168
			5	-0.	9	0.225247
				BIAS CORR		
				VAR CCEFF		0.112623
				EFFICIENCY		98.66

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
10	9	1	1	1.000000	4	0.395703
			2	0.	7	0.276545
			3	-0.	9	0.263083
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.114002
				100.00		97.46
10	9	2	1	1.000000	6	0.491262
			3	0.	9	0.302049
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.118500
				100.00		93.76
				EFFICIENCY		
10	9	1	1	1.000000	8	0.699806
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.146805
				100.00		75.64
				EFFICIENCY		
10	8	0	1	1.000000	1	0.125000
			2	0.	2	0.125000
			3	0.	3	0.125000
			4	-0.	4	0.125000
			5	0.	5	0.125000
			6	0.	6	0.125000
			7	-0.	7	0.125000
			8	-0.	8	0.375000
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.125000
				100.00		100.00
				EFFICIENCY		80.00
				EFF(M/N)		
10	8	7	1	1.000000	2	0.181064
			2	0.	3	0.125006
			3	-0.	4	0.125006
			4	-0.	5	0.125006
			5	0.	6	0.125006
			6	0.	7	0.125006
			7	-0.	8	0.375255
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.125006
				0.010000		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
						99.93
10	8	6	1	1.000000	2	0.252189
			2	0.	4	0.175526
			3	-0.	5	0.125225
			4	-0.	6	0.125225
			6	0.	7	0.125225
			7	-0.	8	0.375675
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.125225
				0.010000		
				EFFICIENCY		100.00
						99.82
10	8	5	1	1.000000	2	0.252708
			2	0.	4	0.253951
			3	-0.	6	0.176910
			5	0.	7	0.125483
			7	-0.	8	0.376448
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.125483
				0.010000		
				EFFICIENCY		100.00
						99.62
10	8	4	1	1.000000	3	0.305871
			2	0.	5	0.256112
			3	-0.	7	0.175115
			5	-0.	8	0.377379
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.125960
				0.010000		
				EFFICIENCY		100.00
						99.24
10	8	3	1	1.000000	3	0.390147
			2	0.	6	0.306865
			3	-0.	8	0.426442
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.126917
				0.010000		
				EFFICIENCY		100.00
						98.49
10	8	2	1	1.000000	5	0.496271
			3	0.	8	0.475581
				BIAS CORR		
				0.100000		
				VAR CCEFF		0.129689
				0.010000		
				EFFICIENCY		100.00
						96.38

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
10	8	1	1	1.000000	8	0.699806
			BIAS CORR	0.100000		
			VAR COEFF	0.010000		0.146805
			EFFICIENCY	100.00		85.15
10	7	7	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	-0.	3	0.142857
			4	-0.	4	0.142857
			5	0.	5	0.142857
			6	0.	6	0.142857
			7	-0.	7	0.571428
			BIAS CORR	0.100000		
			VAR COEFF	0.010000		0.142857
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		70.00
10	7	6	1	1.000000	2	0.206751
			2	0.	3	0.142970
			3	-0.	4	0.142970
			4	-0.	5	0.142970
			6	0.	6	0.142970
			7	-0.	7	0.571880
			BIAS CORR	0.100000		
			VAR COEFF	0.010000		0.142970
			EFFICIENCY	100.00		99.92
10	7	5	1	1.000000	2	0.288290
			2	0.	4	0.205225
			3	-0.	5	0.143151
			5	0.	6	0.143151
			7	-0.	7	0.572604
			BIAS CORR	0.100000		
			VAR COEFF	0.010000		0.143151
			EFFICIENCY	100.00		99.79
10	7	4	1	1.000000	2	0.288968
			2	0.	4	0.290389
			3	-0.	6	0.202294
			5	-0.	7	0.573951



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR		
				VAR CCEFF		0.143488
				EFFICIENCY		99.56
			1	1.000000	2	0.345951
			2	0.	5	0.293021
			3	-0.	7	0.632686
				BIAS CORR		
				VAR CCEFF		0.144112
				EFFICIENCY		99.13
10	7	2	1	1.000000	4	0.506815
			3	0.	7	0.691153
				BIAS CORR		
				VAR CCEFF		0.146014
				EFFICIENCY		97.84
			1	1.000000	7	0.912713
				BIAS CORR		
				VAR CCEFF		0.157159
				EFFICIENCY		90.90
10	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667
			4	-0.	4	0.166666
			5	0.	5	0.166667
			6	-0.	6	0.833333
				BIAS CORR		
				VAR CCEFF		0.166667
				EFFICIENCY		100.00
				EFF(M/N)		60.00
			1	1.000000	2	0.241475
			2	0.	3	0.166820
			3	-0.	4	0.166820
			5	-0.	5	0.166820
			6	-0.	6	0.834101
				BIAS CORR		
				VAR CCEFF		0.166820
				EFFICIENCY		99.91

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	J	SCALE
10	6	4	1	1.000000	2	0.336454
			2	0.	4	0.239512
			3	-0.	5	0.167067
			5	-0.	6	0.835335
			BIAS CORR	0.100000		
			VAR CCEFF	0.010000		0.167067
			EFFICIENCY	100.00		99.76
10	6	3	1	1.000000	2	0.337378
			2	0.	4	0.339037
			3	-0.	6	0.906287
			BIAS CORR	0.100000		
			VAR CCEFF	0.010000		0.167526
			EFFICIENCY	100.00		99.49
10	6	2	1	1.000000	3	0.519335
			3	0.	6	0.976125
			BIAS CORR	0.100000		
			VAR CCEFF	0.010000		0.168943
			EFFICIENCY	100.00		98.65
10	6	1	1	1.000000	6	1.182543
			BIAS CORR	0.100000		
			VAR CCEFF	0.010000		0.176419
			EFFICIENCY	100.00		94.47
10	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	-0.	3	0.200000
			4	-0.	4	0.200000
			5	0.	5	1.200000
			BIAS CORR	0.100000		
			VAR CCEFF	0.010000		0.200000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		50.00
10	5	4	1	1.000000	2	0.289823
			2	0.	3	0.200221
			3	-0.	4	0.200221
			5	-0.	5	1.201327

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE		
10	5	3		BIAS CORR	0.100000			
				VAR CCEFF	0.010000	0.200221		
				EFFICIENCY	100.00	99.89		
		2	1	1.000000	2	0.403938		
			2	0.	4	0.287552		
			3	-0.	5	1.203460		
		1		BIAS CORR	0.100000			
				VAR CCEFF	0.010000	0.200577		
				EFFICIENCY	100.00	99.71		
		10	5	2	1	1.000000	2	0.489243
3	0.				5	1.294168		
	BIAS CORR				0.100000			
	VAR CCEFF			0.010000	0.201473			
	EFFICIENCY			100.00	99.27			
1	1			1.000000	5	1.548863		
				BIAS CORR	0.100000			
				VAR CCEFF	0.010000	0.206688		
	EFFICIENCY			100.00	96.76			
10	4			4	1	1.000000	1	0.250000
		2	0.		2	0.250000		
		3	-0.		3	0.250000		
		4	-0.		4	1.750000		
		3		BIAS CORR	0.100000			
				VAR CCEFF	0.010000	0.250000		
				EFFICIENCY	100.00	100.00		
			EFF(M/N)	100.00	40.00			
		10	4	3	1	1.000000	2	0.362379
					2	0.	3	0.250346
3	-0.				4	1.752420		
2				BIAS CORR	0.100000			
				VAR CCEFF	0.010000	0.250346		
				EFFICIENCY	100.00	99.86		
1	1			1.000000	2	0.505287		
	3			0.	4	1.865110		
				BIAS CORR	0.100000			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.010000 100.00 0.250902 99.64
10	4	1	1	1.000000	4	2.087821
				BIAS CORR VAR CCEFF EFFICIENCY		0.100000 0.010000 100.00 0.254473 98.24
10	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	2.666667
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.100000 0.010000 100.00 100.00 30.00 0.333333
10	3	2	1	1.000000	2	0.483355
			3	0.	3	2.671587
				BIAS CORR VAR CCEFF EFFICIENCY		0.100000 0.010000 100.00 0.333948 99.82
10	3	1	1	1.000000	3	2.975207
				BIAS CORR VAR CCEFF EFFICIENCY		0.100000 0.010000 100.00 0.336111 99.17
10	2	2	1	1.000000	1	0.500000
			2	-0.	2	4.500000
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.100000 0.010000 100.00 100.00 20.00 0.500000
10	2	1	1	1.000000	2	4.736842
				BIAS CORR VAR CCEFF EFFICIENCY		0.100000 0.010000 100.00 0.501385 99.72
10	1	1	1	1.000000	1	10.000000
				BIAS CORR		0.100000

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.010000	1.000000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	10.00

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.942956	1	0.444026
			2	0.057044	2	0.574226
				BIAS CORR		
				0.580169		
				VAR CCEFF		0.322634
				0.183827		
2	2	1		EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		
				100.00		
			1	1.000000	2	0.753110
				BIAS CORR		
2	1	1		0.534939		
				VAR CCEFF		0.354212
				0.185440		
				EFFICIENCY		91.08
				99.13		
			1	1.000000	1	1.869370
3	3	3		0.534939		
				VAR CCEFF		0.648028
				0.185440		
				EFFICIENCY		100.00
				100.00		49.79
				EFF(M/N)		
3	3	2		99.13		
				1.000000		
				BIAS CORR		
				0.534939		
				VAR CCEFF		0.214647
				0.185440		
3	3	1		EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		
				100.00		
			1	0.917412	1	0.273119
				BIAS CORR		
3	3	2		0.056680		
				0.025909		
				0.442764		
				0.095607		
				EFFICIENCY		100.00
				100.00		100.00
3	3	1		EFF(M/N)		
				100.00		
			1	0.920167	2	0.434733
				BIAS CORR		
				0.079833		
				0.422242		
3	3	2		0.095915		
				EFFICIENCY		97.70
				99.68		
			1	1.000000	3	0.634484
				BIAS CORR		
				0.386751		
3	2	2		VAR CCEFF		0.256251
				0.096930		
				EFFICIENCY		83.76
				98.64		
			1	1.000000	3	0.634484
				BIAS CORR		
3	2	1		0.386751		
				VAR CCEFF		0.256251
				0.096930		
				EFFICIENCY		83.76
				98.64		
			1	1.000000	3	0.634484
3	2	2		BIAS CORR		
				0.386751		
				VAR CCEFF		0.256251
				0.096930		
				EFFICIENCY		83.76
				98.64		
3	2	1	1	0.920167	1	0.405798
				BIAS CORR		
				0.079833		
				0.422242		
				0.095915		
				EFFICIENCY		97.70
3	2	2		99.68		
				1.000000		
				BIAS CORR		
				0.386751		
				VAR CCEFF		0.256251
				0.096930		
3	2	1		EFFICIENCY		83.76
				98.64		
			1	0.920167	1	0.405798
				BIAS CORR		
				0.079833		
				0.422242		
3	2	2		0.095915		
				EFFICIENCY		97.70
				99.68		
			1	1.000000	3	0.634484
				BIAS CORR		
				0.386751		
3	2	1		VAR CCEFF		0.256251
				0.096930		
				EFFICIENCY		83.76
				98.64		
			1	0.920167	1	0.405798
				BIAS CORR		
3	2	2		0.079833		
				0.422242		
				0.095915		
				EFFICIENCY		97.70
				99.68		
			1	1.000000	3	0.634484

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
3	2	1		EFFICIENCY		100.00
				EFF(M/N)		66.55
			1	1.000000	2	1.202912
				BIAS CORR		
3	1	1		0.386751		0.333825
				VAR CCEFF		96.62
				0.096930		
				EFFICIENCY		
4	4	4	1	1.000000	1	2.585642
				BIAS CORR		
				0.386751		0.648028
				VAR CCEFF		100.00
4	4	3		0.096930		53.12
				EFFICIENCY		
				EFF(M/N)		
				98.64		
4	4	2	1	0.903506	1	0.193783
				BIAS CORR		
				0.366507		0.160789
				VAR CCEFF		100.00
4	4	1		0.060133		100.00
				EFFICIENCY		
				EFF(M/N)		
				100.00		
4	4	4	1	0.904819	2	0.310472
				BIAS CORR		
				0.361891		0.162251
				VAR CCEFF		99.10
4	4	3		0.060226		
				EFFICIENCY		
				EFF(M/N)		
				99.85		
4	4	2	1	0.939201	3	0.422061
				BIAS CORR		
				0.307242		0.320208
				VAR CCEFF		0.169749
4	4	1		0.060385		94.72
				EFFICIENCY		
				EFF(M/N)		
				99.58		
4	4	1	1	1.000000	4	0.569586
				BIAS CORR		
				0.307242		0.206663
				VAR CCEFF		77.80
4	4	1		0.061172		
				EFFICIENCY		
				EFF(M/N)		
				98.30		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.904906	1	0.257352
			2	0.052993	2	0.299771
			3	0.042101	3	0.707078
		BIAS CORR		0.354834		
		VAR CCEFF		0.060229		0.214584
		EFFICIENCY		100.00		100.00
		EFF(M/N)		99.84		74.93
4	3	2	1	0.939201	2	0.412597
			3	0.060799	3	0.715293
		BIAS CORR		0.351632		
		VAR CCEFF		0.060385		0.217180
		EFFICIENCY		99.74		98.80
4	3	1	1	1.000000	2	0.963391
			BIAS CORR			
			VAR CCEFF			0.230609
			EFFICIENCY			93.05
4	2	2	1	0.908541	1	0.381617
			2	0.091459	2	1.411773
		BIAS CORR		0.336329		
		VAR CCEFF		0.060485		0.322519
		EFFICIENCY		100.00		100.00
		EFF(M/N)		99.42		49.85
4	2	1	1	1.000000	2	1.599287
			BIAS CORR			
			VAR CCEFF			0.328262
			EFFICIENCY			98.25
4	1	1	1	1.000000	1	3.254763
			BIAS CORR			
			VAR CCEFF			0.648028
			EFFICIENCY			100.00
			EFF(M/N)			24.81
5	5	5	1	0.894658	1	0.148562
			2	0.050259	2	0.172007
			3	0.028105	3	0.191587
			4	0.017326	4	0.211667



TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
5	5	4	5	0.009652	5	0.246872
			BIAS CORR	0.316990		
			VAR CCEFF	0.041972		0.128528
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
		3	1	0.895318	2	0.239834
			2	0.050259	3	0.192311
			3	0.040771	4	0.212560
			5	0.013652	5	0.247961
			BIAS CORR	0.314184		
5	5	3	1	0.896280	2	0.365302
			2	0.067922	4	0.282547
			4	0.015798	5	0.251464
			BIAS CORR	0.307647		
			VAR CCEFF	0.042051		0.130985
			EFFICIENCY	99.81		98.12
		2	1	0.927360	2	0.504038
			3	0.072640	5	0.314526
			BIAS CORR	0.296523		
			VAR CCEFF	0.042186		0.136828
			EFFICIENCY	99.49		93.93
5	5	1	1	1.000000	5	0.527472
			BIAS CORR	0.257012		
			VAR CCEFF	0.042805		0.176394
			EFFICIENCY	98.05		72.86
		4	1	0.895483	1	0.185328
			2	0.050280	2	0.214318
			3	0.028084	3	0.238105
			4	0.026152	4	0.546255
			BIAS CORR	0.309444		
5	5	4	1	0.895483	1	0.185328
			2	0.050280	2	0.214318
			3	0.028084	3	0.238105
			4	0.026152	4	0.546255
			BIAS CORR	0.309444		
		4	1	0.895483	1	0.185328
			2	0.050280	2	0.214318
			3	0.028084	3	0.238105
			4	0.026152	4	0.546255
			BIAS CORR	0.309444		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.896280	2	0.299255
			2	0.067922	3	0.239265
			4	0.035798	4	0.549217
			BIAS CORR	0.307647		
			VAR COEFF	0.042051		0.161640
			EFFICIENCY	99.91		99.45
5	4	2	1	0.927360	2	0.456946
			3	0.072640	4	0.642531
			BIAS CORR	0.296523		
			VAR COEFF	0.042186		0.164565
			EFFICIENCY	99.59		97.64
			BIAS CORR	0.257012		
5	4	1	1	1.000000	4	0.836851
			VAR COEFF	0.042805		0.179328
			EFFICIENCY	98.15		89.64
			BIAS CORR	0.052301		
			VAR COEFF	0.042104		0.214562
			EFFICIENCY	100.00		100.00
5	3	3	1	0.897401	1	0.245809
			2	0.050298	2	0.283472
			3	0.052301	3	0.989792
			BIAS CORR	0.296893		
			VAR COEFF	0.042104		0.214562
			EFFICIENCY	100.00		100.00
5	3	2	1	0.927360	2	0.396827
			3	0.072640	3	0.946750
			BIAS CORR	0.296523		
			VAR COEFF	0.042186		0.216138
			EFFICIENCY	99.81		99.27
			BIAS CORR	0.257012		
5	3	1	1	1.000000	3	1.248517
			VAR COEFF	0.042805		0.223146
			EFFICIENCY	98.15		90.15
			BIAS CORR	0.052301		
			VAR COEFF	0.042104		0.214562
			EFFICIENCY	100.00		100.00
5	2	2	1	0.901508	1	0.364161
			2	0.098492	2	1.783689
			BIAS CORR	0.281748		
			VAR COEFF	0.042306		0.322505
			EFFICIENCY	99.81		99.27
			BIAS CORR	0.257012		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		39.85
5	2	1	1	1.000000	2	1.967868
				BIAS CORR		0.257012
				VAR CCEFF		0.042805
				EFFICIENCY		98.83
5	1	1	1	1.000000	1	3.890876
				BIAS CORR		0.257012
				VAR CCEFF		0.042805
				EFFICIENCY		100.00
				EFF(M/N)		19.83
6	6	6	1	0.888476	1	0.115586
			2	0.048251	2	0.137668
			3	0.027319	3	0.152142
			4	0.017505	4	0.165727
			5	0.011633	5	0.180620
			6	0.006816	6	0.208257
				BIAS CORR		0.281795
				VAR CCEFF		0.031291
				EFFICIENCY		100.00
				EFF(M/N)		100.00
6	6	5	1	0.888861	2	0.194202
			2	0.048261	3	0.152436
			3	0.027311	4	0.166117
			4	0.026098	5	0.181058
			6	0.009471	6	0.208775
				BIAS CORR		0.279914
				VAR CCEFF		0.031305
				EFFICIENCY		99.96
6	6	4	1	0.889408	2	0.284708
			2	0.048273	4	0.227550
			3	0.038494	5	0.182124
			4	0.023825	6	0.210067
				BIAS CORR		0.275364
				VAR CCEFF		0.031324
				EFFICIENCY		99.89

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
6	6	3	1	0.890754	3	0.378403
			2	0.064256	5	0.242462
			4	0.044990	6	0.213384
				0.267886		0.109737
				0.031373		97.55
				99.74		
6	6	2	1	0.919767	4	0.485431
			3	0.080233	6	0.266492
				0.257355		0.115328
				0.031482		92.82
				99.39		
6	6	1	1	1.000000	5	0.756252
				0.222130		0.148602
				0.031975		72.03
				97.86		
6	5	5	1	0.889014	1	0.143338
			2	0.048271	2	0.164909
			3	0.027320	3	0.182073
			4	0.017487	4	0.197496
			5	0.017908	5	0.446548
				0.276500		0.128497
				0.071310		100.00
				100.00		83.31
				99.94		
6	5	4	1	0.889408	2	0.232787
			2	0.048271	3	0.182514
			3	0.038494	4	0.198448
			5	0.023825	5	0.447867
				0.275864		0.128883
				0.031374		99.70
				99.95		
6	5	3	1	0.890754	2	0.341569
			2	0.064256	4	0.272351
			4	0.044990	5	0.451124
				0.267886		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
6	5	2		VAR COEFF		0.129854
				EFFICIENCY		98.95
			1	0.919767	3	0.454906
			3	0.080233	5	0.528627
6	5	1		BIAS CORR		0.132368
				VAR COEFF		57.68
				EFFICIENCY		
			1	1.000000	5	0.756272
6	5	1		BIAS CORR		0.148602
				VAR COEFF		86.47
				EFFICIENCY		
			1	0.222130		
6	4	4		VAR COEFF		0.031975
				EFFICIENCY		97.92
				EFF (M/N)		
			1	0.890172	1	0.178663
6	4	4	2	0.048305	2	0.205321
			3	0.027305	3	0.226156
			4	0.034219	4	0.767988
				BIAS CORR		0.160729
6	4	3		VAR COEFF		100.00
				EFFICIENCY		100.00
				EFF (M/N)		66.60
			1	0.890754	2	0.290138
6	4	3	2	0.064256	3	0.226869
			4	0.044990	4	0.770778
				BIAS CORR		0.161330
				VAR COEFF		99.63
6	4	2		EFFICIENCY		
				EFF (M/N)		
			1	0.919767	2	0.426115
			3	0.080233	4	0.868036
6	4	1		BIAS CORR		0.162833
				VAR COEFF		98.71
				EFFICIENCY		
			1	1.000000	4	1.063553
6	4	1		BIAS CORR		0.171052
				VAR COEFF		93.97
				EFFICIENCY		
			1	0.222130		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.892394	1	0.236804
			2	0.048341	2	0.271461
			3	0.059265	3	1.254860
		BIAS CORR		0.258296		
				0.031432		0.214552
				100.00		100.00
				99.55		49.89
6	3	2	1	0.919767	2	0.384331
			3	0.080233	3	1.260765
				0.257355		
		BIAS CORR		0.031482		0.215609
				99.84		99.51
6	3	1	1	1.000000	3	1.511360
				0.222130		
				0.031975		0.219924
		BIAS CORR		98.30		97.56
6	2	2	1	0.896797	1	0.350627
			2	0.103203	2	2.137404
				0.243729		
		BIAS CORR		0.031593		0.322503
				100.00		100.00
				99.04		33.19
6	2	1	1	1.000000	2	2.317936
				0.222130		
				0.031975		0.324826
		BIAS CORR		98.80		99.29
6	1	1	1	1.000000	1	4.501864
				0.222130		
				0.031975		0.648028
		BIAS CORR		100.00		100.00
				97.86		16.52
7	7	7	1	0.883881	1	0.099549
			2	0.046736	2	0.114147
			3	0.026599	3	0.125536
			4	0.017327	4	0.135769

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
7	7	6	5	0.011995	5	0.146001
			6	0.008373	6	0.157676
			7	0.005089	7	0.180275
			BIAS CORR	0.255254		
			VAR CCEFF	0.024412		0.091713
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			1	0.884108	2	0.162389
			2	0.046742	3	0.125667
			3	0.026595	4	0.135953
7	7	5	4	0.025073	5	0.146214
			6	0.012396	6	0.157915
			7	0.005086	7	0.180552
			BIAS CORR	0.254471		
			VAR CCEFF	0.024419		0.091855
			EFFICIENCY	99.97		99.85
			1	0.884411	2	0.233161
			2	0.046746	4	0.189752
			3	0.036895	5	0.146647
			5	0.024964	6	0.158417
7	7	4	7	0.006983	7	0.181141
			BIAS CORR	0.253301		
			VAR CCEFF	0.024427		0.092158
			EFFICIENCY	99.94		99.52
			1	0.884952	3	0.307347
			2	0.061621	5	0.201280
			4	0.036330	6	0.159641
			6	0.017097	7	0.182594
			BIAS CORR	0.249987		
			VAR CCEFF	0.024443		0.092907
7	7	3	EFFICIENCY	99.88		98.71
			1	0.910875	4	0.384058
			3	0.067651	6	0.213534
			6	0.021474	7	0.186395
			BIAS CORR	0.247975		
			VAR CCEFF	0.024485		0.094880
7	7	2	EFFICIENCY	99.70		96.66

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
7	7	2	1	0.932693	5	0.476249
			4	0.067307	7	0.235958
			BIAS CORR	0.236075		
			VAR COEFF	0.024575		0.100325
			EFFICIENCY	99.34		91.42
7	7	1	1	1.000000	6	0.699792
			BIAS CORR	0.196359		
			VAR COEFF	0.024986		0.128080
			EFFICIENCY	97.70		71.61
7	6	6	1	0.884257	1	0.116056
			2	0.046752	2	0.133033
			3	0.026604	3	0.146224
			4	0.017325	4	0.158022
			5	0.011981	5	0.169578
			6	0.013082	6	0.378409
			BIAS CORR	0.251325		
			VAR COEFF	0.024423		0.107022
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.96		85.70
7	6	5	1	0.884484	2	0.189322
			2	0.046758	3	0.146414
			3	0.026600	4	0.158276
			4	0.025062	5	0.169869
			6	0.017097	6	0.379084
			BIAS CORR	0.250545		
			VAR COEFF	0.024429		0.107215
			EFFICIENCY	99.97		99.82
7	6	4	1	0.884952	2	0.271925
			2	0.061521	4	0.221076
			4	0.036330	5	0.170463
			6	0.017097	6	0.380509
			BIAS CORR	0.249987		
			VAR COEFF	0.024443		0.107627
			EFFICIENCY	99.92		99.44
7	6	3	1	0.910875	3	0.358759



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
7	6	2	3	0.067651	5	0.234410
			6	0.021474	6	0.384017
			BIAS CORR	0.247975		
			VAR CCEFF	0.024485		0.108646
			EFFICIENCY	99.74		98.51
			1	0.932693	4	0.449454
			4	0.067307	6	0.452436
7	6	1	BIAS CORR	0.236075		
			VAR CCEFF	0.024575		0.111338
			EFFICIENCY	99.38		96.12
			1	1.000000	6	0.699792
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.128080
			EFFICIENCY	97.75		83.56
7	5	5	1	0.885023	1	0.139037
			2	0.046780	2	0.159258
			3	0.026609	3	0.174921
			4	0.017308	4	0.188610
			5	0.024280	5	0.629975
			BIAS CORR	0.245764		
			VAR CCEFF	0.024444		0.128484
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.87		71.38
			1	0.885306	2	0.226774
7	5	4	2	0.046782	3	0.175210
			3	0.036897	4	0.188981
			5	0.031015	5	0.631309
			BIAS CORR	0.245162		
			VAR CCEFF	0.024452		0.128762
			EFFICIENCY	99.97		99.79
			1	0.910910	2	0.325864
			3	0.058054	4	0.264325
			5	0.031036	5	0.634097
			BIAS CORR	0.244605		
7	5	3	VAR CCEFF	0.024486		0.129352
			EFFICIENCY	99.83		99.33

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.932693	2	0.430292
			4	0.067307	5	0.715771
			BIAS CORR	0.236075		
			VAR CCEFF	0.024575		0.130813
			EFFICIENCY	99.47		98.22
7	5	1	1	1.000000	5	0.947331
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.139963
			EFFICIENCY	97.83		91.80
7	4	4	1	0.886389	1	0.173208
			2	0.046823	2	0.198224
			3	0.026602	3	0.217215
			4	0.040187	4	0.976440
			BIAS CORR	0.238408		
			VAR CCEFF	0.024482		0.160721
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.71		57.06
7	4	3	1	0.886857	2	0.282480
			2	0.061687	3	0.217688
			4	0.051457	4	0.978981
			BIAS CORR	0.237851		
			VAR CCEFF	0.024496		0.161152
7	4	2	1	0.932693	2	0.406031
			4	0.067307	4	1.077033
			BIAS CORR	0.236075		
			VAR CCEFF	0.024575		0.162064
			EFFICIENCY	99.62		99.17
7	4	1	1	1.000000	4	1.271549
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.167352
			EFFICIENCY	97.98		96.04
7	3	3	1	0.888815	1	0.229474
			2	0.046873	2	0.262011

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
7	3	2	3	0.064312	3	1.507265
			BIAS CORR	0.228720		
			VAR CCEFF	0.024551		0.214546
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.44		42.75
7	3	2	1	0.914472	2	0.373952
			3	0.085528	2	1.512343
			BIAS CORR	0.228150		
			VAR CCEFF	0.024585		0.215304
			EFFICIENCY	99.86		99.65
7	3	1	1	1.000000	2	1.760359
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.218232
			EFFICIENCY	98.26		98.31
7	2	2	1	0.893423	1	0.339649
			2	0.106577	2	2.477198
			BIAS CORR	0.215585		
			VAR CCEFF	0.024682		0.322500
			EFFICIENCY	100.00		100.00
7	2	1				28.44
			EFF(M/N)	98.91		
			1	1.000000	2	2.654215
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.324162
7	1	1				99.49
			EFFICIENCY	98.79		
			1	1.000000	1	5.092720
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.648028
6	8	8				100.00
			EFFICIENCY	97.70		14.15
			1	0.880313	1	0.084929
			2	0.045557	2	0.097098
			3	0.025984	2	0.106428
			4	0.017067	4	0.114589
			5	0.012036	5	0.122384
			6	0.008756	6	0.130493

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
8	8	7	7	0.006330	7	0.140015
			8	0.003958	8	0.159041
			BIAS CORR	0.234392		
			VAR CCEFF	0.019690		0.080222
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			1	0.880457	2	0.139018
			2	0.045561	3	0.106490
			3	0.025985	4	0.114686
			4	0.017063	5	0.122499
8	8	6	5	0.017731	6	0.130622
			7	0.009247	7	0.140156
			8	0.003956	8	0.159203
			BIAS CORR	0.233822		
			VAR CCEFF	0.019693		0.080304
			EFFICIENCY	99.98		99.90
			1	0.880644	2	0.196997
			2	0.045568	4	0.162059
			3	0.025982	5	0.122700
			4	0.024294	6	0.130864
8	8	5	6	0.018131	7	0.140421
			8	0.005381	8	0.159510
			BIAS CORR	0.232954		
			VAR CCEFF	0.019697		0.080460
			EFFICIENCY	99.96		99.70
			1	0.880959	3	0.259277
			2	0.045576	5	0.171510
			3	0.035693	6	0.131437
			5	0.024857	7	0.141075
			7	0.012917	8	0.160264
8	8	4	BIAS CORR	0.230413		
			VAR CCEFF	0.019704		0.080844
			EFFICIENCY	99.93		99.23
			1	0.881599	3	0.261523
			2	0.059679	5	0.259287
			4	0.042769	7	0.186546
			7	0.015953	8	0.161694

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
8	8	3		BIAS CORR		
				VAR COEFF		0.081590
				EFFICIENCY		98.32
			1	0.906259	4	0.425133
			3	0.065660	7	0.228253
			6	0.028082	8	0.165789
8	8	2		BIAS CORR		
				VAR COEFF		0.083697
				EFFICIENCY		95.85
			1	0.927233	5	0.539481
			4	0.072767	6	0.236829
				BIAS CORR		
8	8	1		VAR COEFF		0.088904
				EFFICIENCY		90.23
			1	1.000000	7	0.657601
				BIAS CORR		
				VAR COEFF		0.113365
				EFFICIENCY		70.76
8	7	7	1	0.880589	1	0.097014
			2	0.045569	2	0.110893
			3	0.025989	3	0.121515
			4	0.017058	4	0.130763
			5	0.012033	5	0.139577
			6	0.008745	6	0.148528
			7	0.010007	7	0.328770
				BIAS CORR		
				VAR COEFF		0.091696
				EFFICIENCY		100.00
				EFF(M/N)		87.49
			1	0.880734	2	0.152801
8	7	6	2	0.045574	3	0.121603
			3	0.025990	4	0.130896
			4	0.017064	5	0.139728
			5	0.012721	6	0.148656
			7	0.012918	7	0.329151
				BIAS CORR		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION		SCALE	
				BIAI	VAR	BIAI	VAR
8	7	6	1	0.680798	0.017697	0.091803	99.78
			2	0.645516		0.225970	
			3	0.635593		0.185067	
			4	0.624867		0.155956	
			5	0.612917		0.135013	
			6	0.600608		0.119476	
			7	0.587913		0.097007	99.78
8	7	5	1	0.681697		0.225101	
			2	0.645516		0.185067	
			3	0.635593		0.155956	
			4	0.624867		0.135013	
			5	0.612917		0.119476	
			6	0.600608		0.097007	99.78
			7	0.587913		0.071117	99.78
8	7	4	1	0.681697		0.225101	
			2	0.645516		0.185067	
			3	0.635593		0.155956	
			4	0.624867		0.135013	
			5	0.612917		0.119476	
			6	0.600608		0.097007	99.78
			7	0.587913		0.071117	99.78
8	7	3	1	0.681697		0.225101	
			2	0.645516		0.185067	
			3	0.635593		0.155956	
			4	0.624867		0.135013	
			5	0.612917		0.119476	
			6	0.600608		0.097007	99.78
			7	0.587913		0.071117	99.78
8	7	2	1	0.681697		0.225101	
			2	0.645516		0.185067	
			3	0.635593		0.155956	
			4	0.624867		0.135013	
			5	0.612917		0.119476	
			6	0.600608		0.097007	99.78
			7	0.587913		0.071117	99.78
8	7	1	1	0.681697		0.225101	
			2	0.645516		0.185067	
			3	0.635593		0.155956	
			4	0.624867		0.135013	
			5	0.612917		0.119476	
			6	0.600608		0.097007	99.78
			7	0.587913		0.071117	99.78
8	7	0	1	0.681697		0.225101	
			2	0.645516		0.185067	
			3	0.635593		0.155956	
			4	0.624867		0.135013	
			5	0.612917		0.119476	
			6	0.600608		0.097007	99.78
			7	0.587913		0.071117	99.78

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

P.	M	L	I	LOCATION	I	SCALE		
			4	0.017064	4	0.152179		
			5	0.017010	5	0.162086		
			6	0.014198	6	0.533349		
			BIAS CORR	0.727134				
			VAR CORR	0.017709		0.107017		
			EFFICIENCY	100.00		100.00		
			EFF (P/4)	99.91		98.97		
			1	0.001790	1	0.105040		
			2	0.005596	2	0.161596		
			3	0.075599	3	0.197360		
			4	0.076700	4	0.167223		
			5	0.077813	5	0.936063		
			BIAS CORR	0.926716				
			VAR CORR	0.019717		0.107109		
EFFICIENCY	99.98		99.86					
			1	0.001789	1	0.767315		
			2	0.004291	2	0.719663		
			3	0.015785	3	0.167617		
			4	0.077813	4	0.911617		
			BIAS CORR	0.726163				
			VAR CORR	0.019717		0.107616		
			EFFICIENCY	99.91		99.81		
			1	0.006764	1	0.761816		
			2	0.008611	2	0.315384		
			3	0.078082	3	0.661863		
			BIAS CORR	0.725124				
			VAR CORR	0.019710		0.108111		
			EFFICIENCY	99.79		98.99		
			1	0.021713	1	0.929473		
			2	0.077167	2	0.617323		
			BIAS CORR	0.718191				
			VAR CORR	0.017879		0.109787		
			EFFICIENCY	99.39		97.89		
			1	1.000000	1	0.000000		
			BIAS CORR	0.176464		0.115276		
			VAR CORR	0.020179				

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		EFFICIENCY
8	8	5	1	0.082044	1	0.135401
			2	0.065625	2	0.154595
			3	0.026004	3	0.169211
			4	0.013066	4	0.181579
			5	0.007212	5	0.007056
				BIAS CORR		
				VAR CORR		0.170478
12	12	6	1	0.072160	1	0.170478
			2	0.017229	2	100.00
			3	100.00	3	62.99
			4	97.80		
				BIAS CORR		
				VAR CORR		
				EFFICIENCY		
16	16	7	1	0.002224	1	0.771501
			2	0.004671	2	0.173431
			3	0.015101	3	0.181863
			4	0.034602	4	0.004131
				BIAS CORR		
				VAR CORR		0.170007
				EFFICIENCY		97.91
20	20	8	1	0.001214	1	0.115015
			2	0.011519	2	0.751135
			3	0.005722	3	0.006515
				BIAS CORR		
				VAR CORR		0.177081
				EFFICIENCY		97.51
24	24	9	1	0.001211	1	0.015000
			2	0.012161	2	0.005250
			3	0.011111		
				BIAS CORR		
				VAR CORR		0.110081
				EFFICIENCY		98.11
28	28	10	1	0.000000	1	1.121591
				BIAS CORR		
				VAR CORR		0.116001
				EFFICIENCY		98.61
32	32	11	1	0.001551	1	0.140019
			2	0.009075	2	0.142510
			3	0.026004	3	0.210091



TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	LOCATION		SCALE	
			1	4	1	4
4	4	3		0.044764		1.175271
			BIAS CORR	0.214744		
			VAN COEFF	0.019763		0.160716
			EFFICIENCY	100.00		100.00
			EFF(1/2)	99.63		99.92
6	4	3		0.003255		0.275059
				0.059777		0.210427
				0.056749		1.177930
			BIAS CORR	0.214380		
			VAN COEFF	0.019772		0.161041
8	4	2		0.427233		0.391151
				0.077147		1.275272
			BIAS CORR	0.213173		
			VAN COEFF	0.019829		0.161652
			EFFICIENCY	99.67		99.62
10	4	1		1.000000		1.961701
			BIAS CORR	0.176626		
			VAN COEFF	0.020179		0.165359
			EFFICIENCY	97.96		97.17
12	3	1		0.006129		0.273376
				0.066717		0.206767
				0.060125		1.265956
			BIAS CORR	0.209799		
			VAN COEFF	0.019877		0.215961
14	3	1		0.010569		0.166009
				0.069532		1.196129
			BIAS CORR	0.209616		
			VAN COEFF	0.01967		0.215113
			EFFICIENCY	97.88		97.79
16	3	1		1.000000		1.979257
			BIAS CORR	0.176626		
			VAN COEFF	0.020179		0.217231
			EFFICIENCY			
			EFF(1/2)			

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				98.73		98.73
			EFFICIENCY			
2	2	2	1	0.090887	1	0.330459
			2	0.109113	2	2.805907
			BIAS CORR	0.193930		0.322450
			VAR COEFF	0.017731		100.00
			EFFICIENCY	100.00		24.88
			EFFIM/N)	98.73		
2	2	1	1	1.000000	2	2.915517
			BIAS CORR	0.176664		0.323167
			VAR COEFF	0.020119		99.01
			EFFICIENCY	98.73		
2	1	1	1	1.000000	1	5.460071
			BIAS CORR	0.176664		0.487078
			VAR COEFF	0.020119		100.00
			EFFICIENCY	100.00		12.13
			EFFIM/N)	97.57		
4	4	4	1	0.017447	1	0.071076
			2	0.065410	2	0.085216
			3	0.075466	3	0.092018
			4	0.081601	4	0.096016
			5	0.087738	5	0.104111
			6	0.093872	6	0.111162
			7	0.099607	7	0.116002
			8	0.104766	8	0.125371
			9	0.109113	9	0.137363
			BIAS CORR	0.211616		0.071205
			VAR COEFF	0.016287		100.00
			EFFICIENCY	100.00		100.00
			EFFIM/N)	100.00		
4	4	2	1	0.017568	2	0.121171
			2	0.054619	2	0.097107
			3	0.075466	3	0.091879
			4	0.081601	4	0.104111
			5	0.087738	5	0.111162
			6	0.093872	6	0.116002
			7	0.099607	7	0.125371
			8	0.104766	8	0.137363

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
4	4	7	9	0.003173	5	0.142464
			BIAS CORR	0.217041		
			VAN COEFF	0.016291		0.071340
			EFFICIENCY	99.99		99.93
			1	0.077675	2	0.170154
			2	0.044623	4	0.140969
			3	0.025468	5	0.105278
4	4	6	4	0.016747	6	0.111550
			5	0.017335	7	0.118273
			7	0.013817	8	0.126233
			9	0.004789	9	0.142640
			BIAS CORR	0.216371		
			VAN COEFF	0.016294		0.071429
			EFFICIENCY	99.97		99.80
4	4	5	1	0.077863	2	0.170534
			2	0.044625	4	0.140943
			3	0.024738	5	0.105612
			4	0.024673	7	0.118454
			7	0.013814	8	0.126352
			9	0.004785	9	0.141005
			BIAS CORR	0.216121		
4	4	5	1	0.077827	2	0.170519
			2	0.0446148	4	0.140943
			3	0.0245275	5	0.1052159
			4	0.018708	7	0.120119
			9	0.010134	9	0.140679
			BIAS CORR	0.215497		
			VAN COEFF	0.016306		0.071153
4	4	4	1	0.077807	2	0.170509
			2	0.0446174	4	0.140908
			3	0.024629	5	0.105379
			7	0.021266	7	0.140203
			BIAS CORR	0.210329		
			VAN COEFF	0.016317		0.071240

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		EFFICIENCY
4	4	3	1	0.702777	4	0.361280
			3	0.064149	7	0.304209
			6	0.011079	9	0.178388
			BIAS CORR	0.206248		0.074517
			VAN COEFF	0.014343		95.61
			EFFICIENCY	99.67		
4	4	2	1	0.923102	2	0.521778
			4	0.076828	5	0.213394
			BIAS CORR	0.196679		0.074529
			VAN COEFF	0.016612		84.74
			EFFICIENCY	99.25		
4	4	1	1	1.000000	1	0.624611
			BIAS CORR	0.140846		0.102276
			VAN COEFF	0.016711		64.71
			EFFICIENCY	97.86		
4	8	8	1	0.017561	1	0.001325
			2	0.044624	2	0.094626
			3	0.075464	3	0.101870
			4	0.016803	4	0.111490
			5	0.011767	5	0.118083
			6	0.009971	6	0.128030
			7	0.006680	7	0.132240
			8	0.001923	8	0.290936
			BIAS CORR	0.215047		0.080208
			VAN COEFF	0.016293		100.00
			EFFICIENCY	100.00		88.88
			EFFICIENCY	99.98		
4	9	7	1	0.977160	2	0.132710
			2	0.096078	3	0.103522
			3	0.075464	4	0.111102
			4	0.016806	5	0.118160
			5	0.011764	6	0.129129
			6	0.013282	7	0.132322
			8	0.010135	8	0.291117
			BIAS CORR	0.214516		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
VAN COEFF EFFICIENCY				0.016295 99.99		0.080272 99.92
4	8	6	1	0.077086	2	0.141375
			2	0.044637	4	0.150499
			3	0.025466	5	0.110259
			4	0.023679	6	0.125294
			6	0.018203	7	0.132528
			8	0.010134	8	0.241470
			BIAS CORR			
			VAN COEFF EFFICIENCY			0.080389 99.79
4	8	5	1	0.070237	2	0.141402
			2	0.050148	4	0.227086
			4	0.035275	6	0.174861
			6	0.018204	7	0.132474
			8	0.010116	8	0.242464
			BIAS CORR			
			VAN COEFF EFFICIENCY			0.080619 99.49
4	8	4	1	0.070867	2	0.253162
			2	0.058176	4	0.244606
			4	0.041493	7	0.182035
			7	0.021764	8	0.243710
			BIAS CORR			
			VAN COEFF EFFICIENCY			0.081048 98.46
4	8	3	1	0.402112	2	0.320012
			3	0.064149	4	0.310355
			6	0.031079	8	0.342266
			BIAS CORR			
			VAN COEFF EFFICIENCY			0.082042 97.77
4	8	2	1	0.973102	2	0.481352
			4	0.076848	4	0.340711
			BIAS CORR			
			VAN COEFF			0.084646

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		94.76
9	8	1	1	1.000000	8	0.624617
				BIAS CORR		0.102270
				VAR COEFF		78.43
				EFFICIENCY		
9	7	7	1	0.874060	1	0.094819
			2	0.044647	2	0.108118
			3	0.025476	3	0.118169
			4	0.016404	4	0.126707
			5	0.011966	5	0.134643
			6	0.008861	6	0.142248
			7	0.014191	7	0.466207
				BIAS CORR		0.091688
				VAR COEFF		100.00
				EFFICIENCY		77.75
				(1111/4)		
9	7	6	1	0.878162	2	0.159616
			2	0.044647	3	0.110726
			3	0.025476	4	0.120703
			4	0.016404	5	0.134804
			5	0.011966	6	0.142372
			7	0.017588	7	0.466628
				BIAS CORR		0.091772
				VAR COEFF		99.51
				EFFICIENCY		
9	7	5	1	0.878390	2	0.210516
			2	0.044647	4	0.180878
			3	0.016790	5	0.134980
			4	0.024467	6	0.142592
			7	0.017587	7	0.467157
				BIAS CORR		0.091718
				VAR COEFF		99.75
				EFFICIENCY		
9	7	4	1	0.878867	2	0.215211
			2	0.098176	4	0.259241
			4	0.041693	6	0.191220

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			7	0.021264	7	0.468845
			BIAS CORR	0.210328		
			VAR COEFF	0.016316		0.092223
			EFFICIENCY	99.91		99.42
4	7	3	1	0.902772	3	0.285367
			3	0.064149	5	0.279182
			6	0.033079	7	0.526830
			BIAS CORR	0.206249		
			VAR COEFF	0.016343		0.092781
4	7	2				98.82
			EFFICIENCY	99.74		
			1	0.923102	4	0.458440
			4	0.076898	7	0.584370
			BIAS CORR	0.194679		
4	7	1				0.094463
			VAR COEFF	0.016412		97.04
			EFFICIENCY	99.32		
			1	1.000000	7	0.800701
			BIAS CORR	0.160996		
4	7	1				0.104950
			VAR COEFF	0.016711		87.70
			EFFICIENCY	97.53		
			1	0.878711	1	0.130474
			2	0.044668	2	0.125433
4	6	6	3	0.029484	3	0.137907
			4	0.016507	4	0.147508
			5	0.011951	5	0.156306
			6	0.022378	6	0.681602
			BIAS CORR	0.207531		
4	6	5				0.107007
			VAR COEFF	0.016313		100.00
			EFFICIENCY	100.00		66.62
			EFFICIENCY	99.86		
4	6	4	1	0.878837	2	0.141100
			2	0.044671	3	0.137598
			3	0.029482	4	0.147643
			4	0.023676	5	0.156459
			5	0.027333	6	0.604317
4	6	3				
			BIAS CORR	0.207271		
			VAR COEFF	0.016315		0.107171

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.77
						99.89
4	6	4	1	0.979189	2	0.254630
			2	0.058197	4	0.210632
			4	0.035278	6	0.156703
			6	0.027335		0.685558
				BIAS CORR		0.207014
				VAR COEFF		0.016322
				EFFICIENCY		99.94
						99.71
4	6	3	1	0.902772	2	0.255513
			3	0.064147	4	0.301764
			6	0.033079	6	0.153151
				BIAS CORR		0.206748
				VAR COEFF		0.016343
				EFFICIENCY		99.91
						99.33
4	6	2	1	0.923102	2	0.433671
			4	0.076898	4	0.815801
				BIAS CORR		0.194672
				VAR COEFF		0.016412
				EFFICIENCY		99.40
						98.24
4	6	1	1	1.000000	4	1.017577
				BIAS CORR		0.160596
				VAR COEFF		0.016713
				EFFICIENCY		97.40
						92.87
4	5	5	1	0.879714	1	0.132271
			2	0.044706	2	0.150642
			3	0.025499	3	0.164534
			4	0.016794	4	0.175976
			5	0.009266	5	0.186797
				BIAS CORR		0.202294
				VAR COEFF		0.016332
				EFFICIENCY		100.00
				EFF (M/N)		99.74
						99.49
4	5	4	1	0.879922	2	0.169777
			2	0.044709	3	0.164671
			3	0.016768	4	0.176122



TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
4	3	1	1	0.040602	1	0.969178
			2	0.202052	2	0.128637
			3	0.016336	3	99.87
			4	99.98	4	0.304847
			5	0.049842	5	0.231526
4	3	2	1	0.880800	1	0.971235
			2	0.069358	2	0.128921
			3	0.201272	3	99.65
			4	0.016351	4	0.401740
			5	99.87	5	1.053873
4	3	3	1	0.923102	1	0.129524
			2	0.076895	2	99.11
			3	0.154474	3	0.164662
			4	0.016412	4	0.187489
			5	99.51	5	0.204204
4	3	4	1	1.000000	1	1.366501
			2	0.160546	2	0.160713
			3	0.016713	3	100.00
			4	97.72	4	44.36
			5	99.55	5	0.270146
4	3	5	1	0.881355	1	0.204443
			2	0.044763	2	1.366582
			3	0.025502	3	0.160966
			4	0.048180	4	99.84
			5	0.155770	5	0.374432
4	3	6	1	0.881707	1	1.465474
			2	0.058258	2	0.160966
			3	0.059945	3	99.84
			4	0.155113	4	0.270146
			5	0.016369	5	1.366582
4	3	7	1	0.881707	1	0.160966
			2	0.076899	2	99.84
			3	0.076899	3	0.270146
			4	0.016369	4	1.366582
			5	99.84	5	0.160966

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.124679		
			VAR CCEFF	0.016412		0.161404
			EFFICIENCY	99.70		99.57
9	4	1	1	1.000000	4	1.656134
			BIAS CORR	0.160596		
			VAR CCEFF	0.016713		0.164147
			EFFICIENCY	97.90		97.91
9	3	3	1	0.004639	1	0.218052
			2	0.044833	2	0.247720
			3	0.071127	3	1.984632
			BIAS CORR	0.187466		
			VAR CCEFF	0.016413		0.214341
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.24		33.23
9	3	2	1	0.907559	2	0.357359
			2	0.092441	2	1.988541
			BIAS CORR	0.187197		
			VAR CCEFF	0.016432		0.214584
			EFFICIENCY	99.80		99.70
9	3	1	1	1.000000	3	2.230372
			BIAS CORR	0.160596		
			VAR CCEFF	0.016713		0.216589
			EFFICIENCY	98.20		99.05
9	2	2	1	0.888911	1	0.322587
			2	0.111089	2	3.125122
			BIAS CORR	0.176461		
			VAR CCEFF	0.016506		0.322457
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.69		22.11
9	2	1	1	1.000000	2	3.295868
			BIAS CORR	0.160596		
			VAR CCEFF	0.016713		0.323468
			EFFICIENCY	98.76		99.70
9	1	1	1	1.000000	1	6.226806

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.160596	
				VAR CCEFF	0.016713	0.640028
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.46	11.00
10	10	10	1	0.875093	1	0.065129
			2	0.043846	2	0.074160
			3	0.025023	3	0.080932
			4	0.016551	4	0.086674
			5	0.011861	5	0.091911
			6	0.008891	6	0.096964
			7	0.006835	7	0.102114
			8	0.005265	8	0.107730
			9	0.004004	9	0.114578
			10	0.002609	10	0.128908
			BIAS CORR	0.203425		
			VAR CCEFF	0.013749	0.064146	
			EFFICIENCY	100.00	100.00	
			EFF(M/N)	100.00	100.00	
10	10	9	1	0.875162	2	0.107128
			2	0.043848	3	0.080945
			3	0.025023	4	0.086707
			4	0.016553	5	0.091951
			5	0.011857	6	0.097011
			6	0.013050	7	0.102164
			8	0.007895	8	0.107784
			9	0.004003	9	0.114636
			10	0.002609	10	0.128975
						BIAS CORR
			VAR CCEFF	0.013750	0.064179	
			EFFICIENCY	99.99	99.95	
10	10	8	1	0.875244	2	0.149438
			2	0.043850	4	0.124415
			3	0.025027	5	0.092001
			4	0.016546	6	0.097092
			5	0.017007	7	0.102242
			7	0.013970	8	0.107873
			9	0.005748	9	0.114731
			10	0.002608	10	0.129083

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.202891		
			VAR CCEFF	0.013751		0.064203
			EFFICIENCY	99.98		99.86
10	10	7	1	0.875360	2	0.149130
			2	0.043857	4	0.175972
			3	0.025022	6	0.137177
			4	0.023168	7	0.102367
			6	0.018184	8	0.108043
			8	0.010908	9	0.114905
			10	0.003501	10	0.129284
			BIAS CORR	0.202374		
			VAR CCEFF	0.013753		0.064374
			EFFICIENCY	99.97		99.71
10	10	6	1	0.875574	3	0.197380
			2	0.043860	5	0.187980
			3	0.033971	7	0.142855
			5	0.024451	8	0.108307
			7	0.013952	9	0.115235
			9	0.008183	10	0.129652
			BIAS CORR	0.200730		
			VAR CCEFF	0.013756		0.064519
			EFFICIENCY	99.94		99.42
10	10	5	1	0.875963	3	0.251541
			2	0.056939	6	0.237258
			4	0.034804	8	0.148366
			6	0.022383	9	0.115859
			9	0.009917	10	0.130354
			BIAS CORR	0.199920		
			VAR CCEFF	0.013743		0.064893
			EFFICIENCY	99.90		98.85
10	10	4	1	0.876720	4	0.307312
			2	0.056970	7	0.253345
			4	0.046574	9	0.153358
			8	0.015736	10	0.131718
			BIAS CORR	0.196223		
			VAR CCEFF	0.013775		0.065569
			EFFICIENCY	99.81		97.83

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.899096	5	0.368636
			3	0.069947	8	0.279017
			7	0.030137	10	0.161889
			BIAS CORR			
			VAR CCEFF			0.067267
			EFFICIENCY			95.36
10	10	2	1	0.919864	7	0.513506
			4	0.000136	10	0.194898
			BIAS CORR			
			VAR CCEFF			0.072182
			EFFICIENCY			88.87
10	10	1	1	1.000000	8	0.760205
			BIAS CORR			
			VAR CCEFF			0.093487
			EFFICIENCY			68.61
10	9	9	1	0.875260	1	0.072346
			2	0.043853	2	0.082370
			3	0.025027	3	0.085886
			4	0.016553	4	0.096242
			5	0.011862	5	0.102041
			6	0.008890	6	0.107591
			7	0.006833	7	0.113276
			8	0.005278	8	0.119270
			9	0.006443	9	0.261106
			BIAS CORR			
			VAR CCEFF			0.071278
			EFFICIENCY			100.00
			EFF(M/N)			89.99
10	9	8	1	0.875329	2	0.118999
			2	0.043856	3	0.089905
			3	0.025027	4	0.096284
			4	0.016555	5	0.102091
			5	0.011858	6	0.107649
			6	0.013047	7	0.113338
			8	0.007887	8	0.119337
			9	0.006440	9	0.261254

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
10	9	7		BIAS CORR		
				VAR CCEFF		0.071319
				EFFICIENCY		99.94
			1	0.875410	2	0.166008
			2	0.043858	4	0.128179
			3	0.025031	5	0.102156
			4	0.016548	6	0.107750
			5	0.017007	7	0.113435
			7	0.013762	8	0.119447
			9	0.008183	9	0.261497
10	9	6		BIAS CORR		
				VAR CCEFF		0.071386
				EFFICIENCY		99.85
			1	0.875574	2	0.166250
			2	0.043860	4	0.195461
			3	0.023971	6	0.152285
			5	0.024451	7	0.113593
			7	0.013962	8	0.119656
			9	0.008183	9	0.261944
				BIAS CORR		
10	9	5		VAR CCEFF		0.071510
				EFFICIENCY		99.68
			1	0.875963	2	0.219353
			2	0.056930	5	0.208803
			4	0.034804	7	0.158628
			6	0.022383	8	0.119985
			9	0.009912	9	0.262775
				BIAS CORR		
				VAR CCEFF		0.071739
				EFFICIENCY		99.36
10	9	4	1	0.876720	2	0.279701
			2	0.056970	6	0.263673
			4	0.046574	8	0.164555
			8	0.019736	9	0.264407
				BIAS CORR		
				VAR CCEFF		0.072200
				EFFICIENCY		98.72

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
10	9	3	1	0.899896	4	0.342037
			3	0.069947	7	0.281587
			7	0.030157	9	0.307743
			BIAS CORR	0.193377		
			VAR CCEFF	0.013797		0.073054
			EFFICIENCY	99.67		97.60
10	9	2	1	0.919864	6	0.474453
			4	0.080136	9	0.353257
			BIAS CORR	0.179386		
			VAR CCEFF	0.013859		0.075773
			EFFICIENCY	99.23		94.07
10	9	1	1	1.000000	8	0.760205
			BIAS CORR	0.147614		
			VAR CCEFF	0.014121		0.093487
			EFFICIENCY	97.39		76.24
10	8	8	1	0.875566	1	0.081347
			2	0.043867	2	0.092612
			3	0.025034	3	0.101022
			4	0.016556	4	0.108167
			5	0.011861	5	0.114567
			6	0.008889	6	0.120871
			7	0.006823	7	0.126880
			8	0.011404	8	0.413373
			BIAS CORR	0.198765		
			VAR CCEFF	0.013756		0.080202
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.95		79.58
10	8	7	1	0.875635	2	0.133607
			2	0.043870	3	0.101050
			3	0.025033	4	0.108222
			4	0.016558	5	0.114631
			5	0.011856	6	0.120945
			6	0.013040	7	0.126958
			8	0.014007	8	0.413636
			BIAS CORR	0.198526		
			VAR CCEFF	0.013757		0.080254

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				99.99		99.94
				EFFICIENCY		
10	8	6	1	0.875740	2	0.181665
			2	0.043874	4	0.155028
			3	0.025031	5	0.114718
			4	0.023172	6	0.121072
			6	0.018177	7	0.127081
			8	0.014006	8	0.414067
			BIAS CORR	0.198349		
			VAR CCEFF	0.013759		0.080338
			EFFICIENCY	99.98		99.83
10	8	5	1	0.876027	2	0.186977
			2	0.043878	4	0.219701
			3	0.033979	6	0.171119
			5	0.029375	7	0.127285
			8	0.016741	8	0.414868
			BIAS CORR	0.197719		
			VAR CCEFF	0.013764		0.080495
			EFFICIENCY	99.95		99.64
10	8	4	1	0.876720	3	0.246761
			2	0.056970	5	0.234713
			4	0.046574	7	0.177067
			8	0.019736	8	0.416293
			BIAS CORR	0.196523		
			VAR CCEFF	0.013775		0.080784
			EFFICIENCY	99.87		99.28
10	8	3	1	0.899896	3	0.314831
			3	0.069347	6	0.296416
			7	0.030157	8	0.468359
			BIAS CORR	0.193377		
			VAR CCEFF	0.013797		0.081365
			EFFICIENCY	99.71		98.57
10	8	2	1	0.919864	5	0.454046
			4	0.080136	8	0.520860
			BIAS CORR	0.179386		
			VAR CCEFF	0.013859		0.083049
			EFFICIENCY	99.26		96.57



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
10	8	1	1	1.000000	8	0.760205
			BIAS CORR	0.147614		
			VAR CCEFF	0.014121		0.093487
			EFFICIENCY	97.42		85.79
10	7	7	1	0.876051	1	0.092890
			2	0.043887	2	0.105703
			3	0.025043	3	0.115320
			4	0.016556	4	0.123294
			5	0.011863	5	0.130785
			6	0.008875	6	0.137403
			7	0.017724	7	0.596315
			BIAS CORR	0.195418		
			VAR CCEFF	0.013764		0.091683
			EFFICIENCY	100.00		100.00
10	7	6		99.89		69.96
			1	0.876130	2	0.152758
			2	0.043889	3	0.115362
			3	0.025046	4	0.123368
			4	0.016552	5	0.130870
			5	0.017001	6	0.137499
			7	0.021382	7	0.596746
			BIAS CORR	0.195225		
			VAR CCEFF	0.013765		0.091751
			EFFICIENCY	99.99		99.93
10	7	5	1	0.876294	2	0.213133
			2	0.043891	4	0.177171
			3	0.033988	5	0.130988
			5	0.024446	6	0.137664
			7	0.021382	7	0.597445
			BIAS CORR	0.195049		
			VAR CCEFF	0.013768		0.091861
10	7	4		99.97		99.81
			1	0.876735	2	0.213548
			2	0.056978	4	0.250742
			4	0.040853	6	0.194861
			7	0.025434	7	0.598717

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR		
				VAR CCEFF		0.092066
				EFFICIENCY		99.58
			1	0.899896	3	0.281863
			3	0.069947	5	0.267781
			7	0.030157	7	0.658231
				BIAS CORR		
				VAR CCEFF		0.092440
				EFFICIENCY		99.18
10	7	2	1	0.919864	4	0.436805
			4	0.080136	7	0.717360
				BIAS CORR		
				VAR CCEFF		0.093593
				EFFICIENCY		97.96
			1	1.000000	7	0.940995
				BIAS CORR		
				VAR CCEFF		0.100374
				EFFICIENCY		91.34
10	6	6	1	0.876784	1	0.108198
			2	0.043918	2	0.123121
			3	0.025053	3	0.134117
			4	0.016564	4	0.143645
			5	0.011847	5	0.151640
			6	0.025834	6	0.825418
				BIAS CORR		
				VAR CCEFF		0.107003
				EFFICIENCY		100.00
				EFF(M/N)		59.55
10	6	5	1	0.876888	2	0.177952
			2	0.043922	3	0.134182
			3	0.025050	4	0.143748
			4	0.023173	5	0.151756
			6	0.030966	6	0.826109
				BIAS CORR		
				VAR CCEFF		0.107095
				EFFICIENCY		99.91

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	0.877207	2	0.248224
			2	0.057004	4	0.206369
			4	0.034818	5	0.151922
			6	0.030971	6	0.827239
			BIAS CORR	0.190960		
			VAR CCEFF	0.013782		0.107244
			EFFICIENCY	99.95		99.78
10	6	3	1	0.900035	2	0.248752
			3	0.062947	4	0.291799
			6	0.037018	6	0.895304
			BIAS CORR	0.190427		
			VAR CCEFF	0.013799		0.107519
			EFFICIENCY	99.83		99.52
10	6	2	1	0.919864	3	0.417408
			4	0.080136	6	0.962273
			BIAS CORR	0.179386		
			VAR CCEFF	0.013859		0.108375
			EFFICIENCY	99.40		98.73
10	6	1	1	1.000000	6	1.159397
			BIAS CORR	0.147614		
			VAR CCEFF	0.014121		0.112897
			EFFICIENCY	97.56		94.78
10	5	5	1	0.877890	1	0.125529
			2	0.043958	2	0.147219
			3	0.025072	3	0.160554
			4	0.016552	4	0.171205
			5	0.036527	5	1.127014
			BIAS CORR	0.186331		
			VAR CCEFF	0.013793		0.128471
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.68		49.93
10	5	4	1	0.878054	2	0.212854
			2	0.043960	3	0.160659
			3	0.034014	4	0.171356
			5	0.043972	5	1.128131

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
10	5	3		BIAS CORR		
				VAR COEFF		0.128602
				EFFICIENCY		99.90
			1	0.878841	2	0.297112
			2	0.667684	4	0.246398
			5	0.653475	9	1.129930
		2		BIAS CORR		
				VAR COEFF		0.128619
				EFFICIENCY		99.73
			1	0.919864	2	0.391829
			4	0.680136	9	1.211966
		1		BIAS CORR		
				VAR COEFF		0.129349
				EFFICIENCY		99.32
10	5	1		BIAS CORR		
				VAR COEFF		0.132480
				EFFICIENCY		96.97
			1	1.000000	9	1.442137
			1	0.147614		
			1	0.614121		
		4		BIAS CORR		
				VAR COEFF		0.160711
				EFFICIENCY		100.00
				EFFICIENCY		99.68
			1	0.879595	1	0.161204
			2	0.644021	2	0.183248
			3	0.625079	3	0.195190
			4	0.651305	4	1.551656
10	4	4		BIAS CORR		
				VAR COEFF		0.160711
				EFFICIENCY		100.00
				EFFICIENCY		99.68
			1	0.879914	2	0.265048
			2	0.657118	3	0.199329
		3		BIAS CORR		
				VAR COEFF		0.160714
				EFFICIENCY		99.87
			1	0.879914	2	0.265048
			2	0.657118	3	0.199329
			4	0.652968	4	1.553548
10	4	2		BIAS CORR		
				VAR COEFF		0.160714
				EFFICIENCY		99.87
			1	0.879914	2	0.265048
			2	0.657118	3	0.199329
			4	0.652968	4	1.553548
		1		BIAS CORR		
				VAR COEFF		0.160714
				EFFICIENCY		99.87
			1	0.879914	2	0.265048
			2	0.657118	3	0.199329
			4	0.652968	4	1.553548

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.013859 99.72 0.161243 99.67
10	4	1	1	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	4	1.837956 0.163360 98.38
10	3	3	1	0.887367	1	0.213448
			2	0.044099	2	0.242078
			3	0.073535	3	2.212782
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.172437 0.013864 100.00 29.90
10	3	2	1	0.905175	2	0.350526
			3	0.094825	3	2.216272
				BIAS CORR VAR CCEFF EFFICIENCY		0.172242 0.013879 99.89 0.214895 99.83
10	3	1	1	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	3	2.455013 0.216152 99.25
10	2	2	1	0.887329	1	0.315722
			2	0.112671	2	3.436520
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.162241 0.013944 100.00 19.89
10	2	1	1	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	2	3.504509 0.323274 99.76
10	1	1	1	1.000000 BIAS CORR	1	6.774408

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.014121	0.648028
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.37	9.90

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.877049	1	0.400535
			2	0.122951	2	0.624369
			BIAS CORR	0.650838		
			VAR CCEFF	0.144482		0.227522
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
2	2	1	1	1.000000	2	0.808540
			BIAS CORR	0.568694		
			VAR CCEFF	0.149093		0.247837
			EFFICIENCY	96.91		91.80
2	1	1	1	1.000000	1	1.758415
			BIAS CORR	0.568694		
			VAR CCEFF	0.149093		0.460999
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.91		49.35
3	3	3	1	0.825555	1	0.232979
			2	0.110534	2	0.315865
			3	0.063912	3	0.441603
			BIAS CORR	0.542711		
			VAR CCEFF	0.092617		0.150762
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
3	3	2	1	0.835667	2	0.420994
			2	0.164333	2	0.450628
			BIAS CORR	0.500401		
			VAR CCEFF	0.083695		0.154029
			EFFICIENCY	98.71		97.88
3	3	1	1	1.000000	2	0.696307
			BIAS CORR	0.433995		
			VAR CCEFF	0.086820		0.177966
			EFFICIENCY	95.15		84.71
3	2	2	1	0.835667	1	0.344432
			2	0.164333	2	1.014826
			BIAS CORR	0.500401		
			VAR CCEFF	0.083695		0.227344

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		66.31
3	2	1	1	1.000000	2	1.193186
				BIAS CORR		
				0.433995		
				VAR CCEFF		0.234561
				0.086830		
				EFFICIENCY		96.92
				96.39		
3	1	1	1	1.000000	1	2.304176
				BIAS CORR		
				0.433995		
				VAR CCEFF		0.460998
				0.086830		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		32.70
				95.15		
4	4	4	1	0.797104	1	0.158949
			2	0.099396	2	0.209494
			3	0.063199	3	0.258541
			4	0.040300	4	0.343869
				BIAS CORR		
				0.478968		
				VAR CCEFF		0.112671
				0.055586		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
4	4	3	1	0.801127	2	0.286068
			2	0.141858	3	0.260393
			4	0.057015	4	0.346681
				BIAS CORR		
				0.470693		
				VAR CCEFF		0.113624
				0.055885		
				EFFICIENCY		99.16
				99.47		
4	4	2	1	0.863137	3	0.424437
			3	0.116103	4	0.361049
				BIAS CORR		
				0.448135		
				VAR CCEFF		0.118566
				0.056413		
				EFFICIENCY		95.03
				98.53		
4	4	1	1	1.000000	4	0.634300
				BIAS CORR		
				0.358255		
				VAR CCEFF		0.142930
				0.059168		
				EFFICIENCY		78.83
				93.95		



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.802583	1	0.210761
			2	0.099770	2	0.276354
			3	0.097648	3	0.130824
		BIAS CORR		0.452608		
				0.055979		0.150636
				100.00		100.00
				99.30		74.80
4	3	2	1	0.863137	2	0.378887
			3	0.136863	2	0.738420
		BIAS CORR		0.448135		
				0.056413		0.152315
				99.23		98.90
4	3	1	1	1.000000	3	0.985251
				0.358255		
				0.059168		0.161103
		BIAS CORR		94.61		93.50
4	2	2	1	0.815150	1	0.310791
			2	0.184850	2	1.343978
		BIAS CORR		0.414257		
				0.056901		0.227293
				100.00		100.00
				97.69		49.57
4	2	1	1	1.000000	2	1.512368
				0.358255		
				0.059168		0.230962
		BIAS CORR		96.17		98.41
4	1	1	1	1.000000	1	2.791310
				0.358255		
				0.059168		0.460999
		BIAS CORR		100.00		100.00
				93.95		24.44
5	5	5	1	0.778628	1	0.118297
			2	0.092024	2	0.153590
			3	0.059190	3	0.184891
			4	0.041881	4	0.218818

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
5	5	4	5	0.022277	5	0.282553
			BIAS CORR	0.435651		
			VAR CCEFF	0.040887		0.089928
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			1	0.780802	2	0.213219
			2	0.092162	3	0.185458
			3	0.088058	4	0.219647
			5	0.038979	5	0.283741
			BIAS CORR	0.430060		
5	5	3				0.090301
			VAR CCEFF	0.041004		99.59
			EFFICIENCY	99.71		
			1	0.784336	2	0.325419
			2	0.127217	4	0.292118
			4	0.088448	5	0.287503
			BIAS CORR	0.414282		
			VAR CCEFF	0.041196		0.091563
			EFFICIENCY	99.25		98.21
5	5	2	1	0.840789	3	0.484440
			3	0.159211	5	0.358313
			BIAS CORR	0.389900		
			VAR CCEFF	0.041683		0.095440
			EFFICIENCY	98.09		94.22
			1	1.000000	5	0.593755
			BIAS CORR	0.308735		
			VAR CCEFF	0.043941		0.121673
			EFFICIENCY	93.05		73.91
5	4	4	1	0.782045	1	0.147480
			2	0.092337	2	0.191082
			3	0.059260	3	0.229071
			4	0.066359	4	0.576528
			BIAS CORR	0.417364		
			VAR CCEFF	0.041060		0.112586
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.56		79.87

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.784336	2	0.265686
			2	0.127217	3	0.230003
			4	0.088448	4	0.579377
			BIAS CORR	0.414282		
			VAR CCEFF	0.041196		0.113167
			EFFICIENCY	99.69		99.49
5	4	2	1	0.840789	2	0.406145
			3	0.159211	4	0.675477
			BIAS CORR	0.389900		
			VAR CCEFF	0.041683		0.115114
			EFFICIENCY	98.53		97.80
5	4	1	1	1.000000	4	0.872655
			BIAS CORR	0.308735		
			VAR CCEFF	0.043941		0.124860
			EFFICIENCY	93.46		90.17
5	3	3	1	0.789097	1	0.195173
			2	0.092857	2	0.251746
			3	0.118045	3	0.976977
			BIAS CORR	0.391905		
			VAR CCEFF	0.041449		0.150593
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.64		59.72
5	3	2	1	0.840789	2	0.351031
			3	0.159211	3	0.983111
			BIAS CORR	0.389900		
			VAR CCEFF	0.041683		0.151612
			EFFICIENCY	99.44		99.33
5	3	1	1	1.000000	3	1.221697
			BIAS CORR	0.308735		
			VAR CCEFF	0.043941		0.156195
			EFFICIENCY	94.33		96.41
5	2	2	1	0.802893	1	0.287397
			2	0.197107	2	1.637988
			BIAS CORR	0.357538		
			VAR CCEFF	0.042204		0.227272

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		96.88
5	2	1	1	1.000000	2	1.797477
				BIAS CORR		
				VAR CCEFF		0.225488
				EFFICIENCY		99.03
5	1	1	1	1.000000	1	3.239029
				BIAS CORR		
				VAR CCEFF		0.460399
				EFFICIENCY		100.00
				EFF(M/N)		93.05
6	6	6	1	0.765451	1	0.092963
			2	0.086861	2	0.119563
			3	0.055907	3	0.142090
			4	0.040297	4	0.164322
			5	0.030261	5	0.185881
			6	0.021223	6	0.240413
				BIAS CORR		
				VAR CCEFF		0.074916
				EFFICIENCY		100.00
				EFF(M/N)		100.00
6	6	5	1	0.766668	2	0.167891
			2	0.086939	3	0.142293
			3	0.080307	4	0.164660
			5	0.044863	5	0.190301
			6	0.021223	6	0.240968
				BIAS CORR		
				VAR CCEFF		0.074992
				EFFICIENCY		99.77
6	6	4	1	0.768396	2	0.246700
			2	0.117671	4	0.225680
			4	0.085110	5	0.191323
			6	0.028823	6	0.242386
				BIAS CORR		
				VAR CCEFF		0.075447
				EFFICIENCY		99.16

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
6	6	3	1	0.815027	3	0.352270
			3	0.121352	5	0.254823
			5	0.063621	6	0.245977
		BIAS CORR		0.387046		
				0.032114		0.076610
				99.08		97.66
6	6	2	1	0.860177	4	0.483359
			4	0.139823	6	0.308379
				0.366449		
		BIAS CORR		0.032539		0.080335
				97.79		93.13
6	6	1	1	1.000000	5	0.800351
				0.273400		
				0.034459		0.103242
		BIAS CORR		92.34		72.47
6	5	5	1	0.767787	1	0.111393
			2	0.087092	2	0.143124
			3	0.056014	3	0.169796
			4	0.040295	4	0.195682
			5	0.048811	5	0.478450
		BIAS CORR		0.390115		
				0.031917		0.089867
				100.00		100.00
				99.69		83.25
6	5	4	1	0.769004	2	0.201124
			2	0.087170	3	0.170115
			3	0.080413	4	0.196162
			5	0.063412	5	0.479753
				0.387932		
		BIAS CORR		0.031969		0.090119
				99.84		99.72
6	5	3	1	0.815027	2	0.295685
			3	0.121352	4	0.269419
			5	0.063621	5	0.483027
		BIAS CORR		0.387046		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.090770 99.00
6	5	2	1	0.860177	2	0.422685
			4	0.139823	5	0.564157
				BIAS CORR		
				VAR CCEFF		0.092436
				EFFICIENCY		97.22
6	5	1	1	1.000000	5	0.800351
				BIAS CORR		
				VAR CCEFF		0.103242
				EFFICIENCY		87.05
6	4	4	1	0.772284	1	0.138711
			2	0.087495	2	0.177855
			3	0.056150	3	0.210258
			4	0.084071	4	0.776398
				BIAS CORR		
				VAR CCEFF		0.112553
				EFFICIENCY		100.00
				EFF(M/N)		66.17
6	4	3	1	0.773896	2	0.250246
			2	0.118311	3	0.210793
			4	0.107793	4	0.778966
				BIAS CORR		
				VAR CCEFF		0.112944
				EFFICIENCY		99.65
6	4	2	1	0.860177	2	0.368026
			4	0.139823	4	0.874826
				BIAS CORR		
				VAR CCEFF		0.113946
				EFFICIENCY		98.78
6	4	1	1	1.000000	4	1.065099
				BIAS CORR		
				VAR CCEFF		0.119376
				EFFICIENCY		94.28

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.780203	1	0.183361
			2	0.088108	2	0.234209
			3	0.131689	3	1.197648
		BIAS CORR		0.348019		
		VAR CCEFF		0.032443		0.150573
		EFFICIENCY		100.00		100.00
		EFF(M/N)		98.08		49.69
6	3	2	1	0.826759	2	0.330250
			3	0.173241	3	1.202677
		BIAS CORR		0.346990		
		VAR CCEFF		0.032592		0.151257
		EFFICIENCY		99.54		99.55
6	3	1	1	1.000000	3	1.432282
				BIAS CORR		
				0.273400		
				VAR CCEFF		0.154081
6	2	2	1	0.794744	1	0.269778
			2	0.205256	2	1.908167
		BIAS CORR		0.316916		
		VAR CCEFF		0.033069		0.227261
		EFFICIENCY		100.00		100.00
6	2	1		EFF(M/N)		32.92
				96.22		
			1	1.000000	2	2.060115
				BIAS CORR		
				0.273400		
6	1	1		VAR CCEFF		0.228743
				0.034458		99.35
				EFFICIENCY		
				95.97		
6	1	1	1	1.000000	1	3.657651
				BIAS CORR		
				0.273400		
				VAR CCEFF		0.460958
				0.034458		
7	7	7		EFFICIENCY		100.00
				100.00		16.23
				EFF(M/N)		
				92.34		
7	7	7	1	0.755462	1	0.075838
			2	0.083054	2	0.096901
			3	0.053330	3	0.114239
			4	0.038665	4	0.130561

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
7	7	6	5	0.029665	5	0.147559
			6	0.023143	6	0.167892
			7	0.016492	7	0.209528
			BIAS CORR	0.378853		
			VAR COEFF	0.025744		0.064049
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			1	0.756208	2	0.137202
			2	0.043115	3	0.114314
			3	0.033344	4	0.130710
7	7	5	4	0.056947	5	0.147753
			6	0.033706	6	0.168127
			7	0.016677	7	0.209829
			BIAS CORR	0.377222		
			VAR COEFF	0.025770		0.064142
			EFFICIENCY	99.90		99.85
			1	0.757210	2	0.147466
			2	0.043193	3	0.112497
			3	0.035222	4	0.140191
			4	0.019006	5	0.168627
7	7	4	5	0.027350	6	0.210485
			7	0.376641		
			BIAS CORR	0.025805		0.064347
			VAR COEFF	99.74		99.54
			EFFICIENCY			
			1	0.754152	2	0.278425
			2	0.111342	3	0.203444
			3	0.081015	4	0.169839
			4	0.048419	5	0.212082
			6	0.365792		
7	7	3	7	0.025873		0.064846
			BIAS CORR	97.50		98.77
			VAR COEFF			
			EFFICIENCY			
			1	0.802904	2	0.368212
			3	0.131329	3	0.277207
			4	0.059767	4	0.210267
			6	0.362253		
			BIAS CORR	0.026013		0.066167
			VAR COEFF	98.96		96.80
			EFFICIENCY			



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
7	7	2	1	0.845357	5	0.479702
			4	0.154643	7	0.272776
			BIAS CORR			
			VAR CCEFF			0.069811
			EFFICIENCY			91.75
7	7	1	1	1.000000	6	0.749188
			BIAS CORR			
			VAR CCEFF			0.088849
			EFFICIENCY			72.09
7	6	6	1	0.757165	1	0.088398
			2	0.083227	2	0.112891
			3	0.053424	3	0.132972
			4	0.030706	4	0.151746
			5	0.029644	5	0.171014
			6	0.037835	6	0.410171
			BIAS CORR			
			VAR CCEFF			0.074772
			EFFICIENCY			100.00
			EFF(M/N)			85.66
7	6	5	1	0.757910	2	0.159904
			2	0.083287	3	0.133091
			3	0.053442	4	0.151954
			4	0.056976	5	0.171280
			6	0.048386	6	0.410849
			BIAS CORR			
			VAR CCEFF			0.074897
			EFFICIENCY			99.83
7	6	4	1	0.759159	2	0.230185
			2	0.111302	4	0.212309
			4	0.081015	5	0.171829
			6	0.048435	6	0.412316
			BIAS CORR			
			VAR CCEFF			0.075176
			EFFICIENCY			99.46
7	6	3	1	0.802904	3	0.325176

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
7	6	2	3	0.137729	5	0.236386
			6	0.059767	6	0.415866
			BIAS CORR			
				0.362297		
			VAR CCEFF			0.075854
			EFFICIENCY			98.57
7	6	1	1	0.845357	4	0.430186
			4	0.154643	6	0.488388
			BIAS CORR			
				0.333687		
			VAR CCEFF			0.077650
			EFFICIENCY			96.23
7	6	1	1	1.000000	6	0.749188
			BIAS CORR			
				0.246699		
			VAR CCEFF			0.080849
			EFFICIENCY			84.16
7	5	5	1	0.760281	1	0.105851
			2	0.093525	2	0.135026
			3	0.053570	3	0.158785
			4	0.038739	4	0.180668
			5	0.063886	5	0.648083
			BIAS CORR			
				0.354261		
			VAR CCEFF			0.085842
			EFFICIENCY			100.00
			EFF(M/N)			71.27
7	5	4	1	0.761121	2	0.191383
			2	0.083579	3	0.158979
			3	0.075465	4	0.180975
			5	0.079834	5	0.649346
			BIAS CORR			
				0.353131		
			VAR CCEFF			0.090023
			EFFICIENCY			99.80
7	5	3	1	0.803738	2	0.275528
			3	0.116193	4	0.253243
			5	0.080069	5	0.652042
			BIAS CORR			
				0.352693		
			VAR CCEFF			0.090420
			EFFICIENCY			99.36

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.845357	2	0.389291
			4	0.154643	5	0.734091
			BIAS CORR			
				0.333687		
				0.026377		0.091389
			EFFICIENCY			98.31
7	5	1	1	1.000000	5	0.965126
			BIAS CORR			
				0.246699		
				0.028056		0.097488
			EFFICIENCY			92.16
7	4	4	1	0.765413	1	0.131704
			2	0.093982	2	0.167692
			3	0.053755	3	0.196609
			4	0.096851	4	0.956364
			BIAS CORR			
				0.336669		
				0.026087		0.112537
				100.00		100.00
			EFF(M/N)			56.91
7	4	3	1	0.766677	2	0.237927
			2	0.112252	3	0.196942
			4	0.121071	4	0.958628
			BIAS CORR			
				0.335783		
				0.026132		0.112817
			EFFICIENCY			99.75
7	4	2	1	0.845357	2	0.342508
			4	0.154643	4	1.052247
			BIAS CORR			
				0.333687		
				0.026377		0.113426
			EFFICIENCY			99.22
7	4	1	1	1.000000	4	1.235776
			BIAS CORR			
				0.246699		
				0.028056		0.116921
			EFFICIENCY			96.25
7	3	3	1	0.773891	1	0.173970
			2	0.084657	2	0.220776

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
7	3	2	1	0.817096	1	0.313786
			3	0.182904	3	1.404963
			BIAS CORR	0.314608		
			VAR CCEFF	0.026382		0.150562
			EFFICIENCY	100.00		100.00
7	3	1	1	1.000000	1	1.626227
			BIAS CORR	0.246699		
			VAR CCEFF	0.028056		0.152969
			EFFICIENCY	94.03		98.43
			EFF(M/N)	97.58		42.54
7	2	2	1	0.788933	1	0.255822
			2	0.211067	2	2.160695
			BIAS CORR	0.286148		
			VAR CCEFF	0.026910		0.227255
			EFFICIENCY	100.00		100.00
7	2	1	1	1.000000	1	4.053531
			BIAS CORR	0.246699		
			VAR CCEFF	0.028056		0.460959
			EFFICIENCY	95.91		100.00
			EFF(M/N)	91.76		13.89
8	8	8	1	0.747559	1	0.063581
			2	0.080131	2	0.080847
			3	0.051284	3	0.094787
			4	0.037237	4	0.107533
			5	0.026811	5	0.120206
			6	0.022993	6	0.133897

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
8	8	7	7	0.018424	7	0.150616
			8	0.013560	8	0.185895
			BIAS CORR	0.358781		
			VAR CCEFF	0.021430		0.055990
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			1	0.748060	2	0.115190
			2	0.080175	3	0.094812
			3	0.051306	4	0.107606
			4	0.037240	5	0.120305
8	8	6	5	0.043154	6	0.134018
			7	0.026512	7	0.150757
			8	0.013554	8	0.186072
			BIAS CORR	0.357514		
			VAR CCEFF	0.021445		0.056043
			EFFICIENCY	99.93		99.90
			1	0.748701	2	0.163622
			2	0.080218	4	0.152048
			3	0.071486	5	0.120484
			5	0.059513	6	0.134246
8	8	5	7	0.026520	7	0.151027
			8	0.013562	8	0.186418
			BIAS CORR	0.356854		
			VAR CCEFF	0.021464		0.056149
			EFFICIENCY	99.84		99.72
			1	0.749756	3	0.230190
			2	0.106468	5	0.168415
			4	0.077830	6	0.134793
			6	0.047876	7	0.151686
			8	0.018069	8	0.187255
8	8	4	BIAS CORR	0.354966		
			VAR CCEFF	0.021455		0.056000
			EFFICIENCY	99.70		99.26
			1	0.751923	3	0.232040
			2	0.106719	5	0.254516
			4	0.094578	7	0.200771
			7	0.046781	8	0.188839

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.345460		0.056909
				0.021558		98.38
				99.41		
8	8	3	1	0.793572	4	0.397768
			3	0.130961	7	0.245692
			6	0.075467	8	0.193399
				0.335868		
				0.021676		0.058328
				98.87		95.99
8	8	2	1	0.834859	5	0.527597
			4	0.165102	6	0.275380
				0.306989		
				0.022010		0.061818
				97.37		90.57
8	8	1	1	1.000000	7	0.710640
				0.225686		
				0.023481		0.078552
				91.27		71.28
8	7	7	1	0.748859	1	0.072620
			2	0.080263	2	0.092311
			3	0.051362	3	0.108181
			4	0.037282	4	0.122628
			5	0.028827	5	0.136902
			6	0.022968	6	0.152065
			7	0.030439	7	0.359704
				0.350247		
				0.021468		0.064016
				100.00		100.00
				99.83		87.46
8	7	6	1	0.749359	2	0.131553
			2	0.080307	3	0.108224
			3	0.051383	4	0.122727
			4	0.037284	5	0.137034
			5	0.043154	6	0.152223
			7	0.038513	7	0.260092
				0.348983		
				BIAS CORR		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
8	7	5		0.021482		0.064086
				99.93		99.89
			1	0.750002	2	0.186887
			2	0.080349	4	0.173502
			3	0.071587	5	0.137273
			5	0.059533	6	0.152523
			7	0.038528	7	0.360846
			BIAS CORR	0.348318		
			VAR CCEFF	0.021501		0.064224
			EFFICIENCY	99.84		99.68
8	7	4	1	0.751923	3	0.262980
			2	0.106719	5	0.192076
			4	0.094578	6	0.153240
			7	0.046781	7	0.362675
			BIAS CORR	0.345460		
			VAR CCEFF	0.021558		0.064558
			EFFICIENCY	99.58		99.16
			1	0.793572	3	0.265401
			3	0.130961	5	0.290302
			6	0.075467	7	0.420573
8	7	3	BIAS CORR	0.335868		
			VAR CCEFF	0.021676		0.065209
			EFFICIENCY	99.04		98.17
			1	0.824859	4	0.455849
			4	0.165141	7	0.478046
			BIAS CORR	0.306988		
			VAR CCEFF	0.022010		0.067064
			EFFICIENCY	97.54		95.46
			1	1.000000	7	0.710640
			BIAS CORR	0.225686		
8	7	1	VAR CCEFF	0.023481		0.078552
			EFFICIENCY	91.43		81.49
			1	0.751149	1	0.084610
			2	0.080488	2	0.107495
			3	0.051484	3	0.125836

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.037343	4	0.142464
			5	0.028826	5	0.158629
			6	0.050709	6	0.558228
				BIAS CORR		
				0.339132		
				VAR CCEFF		0.074753
				0.021534		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		74.90
				99.52		
8	6	5	1	0.751657	2	0.153243
			2	0.080530	3	0.125909
			3	0.051497	4	0.142605
			4	0.053932	5	0.158809
			6	0.062385	6	0.558922
				BIAS CORR		
				0.338274		
				VAR CCEFF		0.074848
				0.021549		
				EFFICIENCY		99.87
				99.93		
8	6	4	1	0.752697	2	0.217694
			2	0.106848	4	0.201745
			4	0.078012	5	0.159141
			6	0.062442	6	0.560261
				BIAS CORR		
				0.337744		
				VAR CCEFF		0.075034
				0.021580		
				EFFICIENCY		99.62
				99.70		
8	6	3	1	0.793572	3	0.306345
			3	0.130961	5	0.223024
			6	0.075467	6	0.563506
				BIAS CORR		
				0.335868		
				VAR CCEFF		0.075487
				0.021676		
				EFFICIENCY		99.03
				99.34		
8	6	2	1	0.834859	4	0.401046
			4	0.165141	6	0.637141
				BIAS CORR		
				0.306988		
				VAR CCEFF		0.076602
				0.022010		
				EFFICIENCY		97.59
				97.84		
8	6	1	1	1.000000	6	0.894801
				BIAS CORR		
				0.225686		
				VAR CCEFF		0.082979
				0.023481		



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	i	SCALE
				EFFICIENCY		91.71
						90.09
8	5	5	1	0.754747	1	0.101265
			2	0.080825	2	0.128493
			3	0.051658	3	0.150229
			4	0.037405	4	0.169631
			5	0.075365	5	0.801482
			BIAS CORR	0.325451		
			VAR CCEFF	0.021638		0.085829
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.04		62.33
8	5	4	1	0.755354	2	0.183291
			2	0.080868	3	0.150353
			3	0.071928	4	0.165840
			5	0.091810	5	0.802656
			BIAS CORR	0.324775		
			VAR CCEFF	0.021657		0.089966
			EFFICIENCY	99.91		99.85
8	5	3	1	0.795616	2	0.260376
			3	0.112325	4	0.240572
			5	0.092059	5	0.804894
			BIAS CORR	0.324574		
			VAR CCEFF	0.021732		0.090232
			EFFICIENCY	99.57		99.55
8	5	2	1	0.834859	3	0.366353
			4	0.165141	5	0.885573
			BIAS CORR	0.306988		
			VAR CCEFF	0.022010		0.090879
			EFFICIENCY	98.31		98.25
8	5	1	1	1.000000	5	1.110602
			BIAS CORR	0.225686		
			VAR CCEFF	0.023481		0.094845
			EFFICIENCY	92.15		94.71
8	4	4	1	0.760307	1	0.125921
			2	0.081320	2	0.159531
			3	0.051878	3	0.186011

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.106495	4	1.122394
			BIAS CORR	0.308769		
			VAR CCEFF	0.021799		0.112527
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.31		49.76
8	4	3	1	0.761363	2	0.227753
			2	0.107834	3	0.186230
			4	0.130803	4	1.124390
			BIAS CORR	0.308210		
			VAR CCEFF	0.021831		0.112738
			EFFICIENCY	99.86		99.81
8	4	2	1	0.834859	2	0.323448
			4	0.165141	4	1.215357
			BIAS CORR	0.306988		
			VAR CCEFF	0.022010		0.113147
			EFFICIENCY	99.04		99.45
8	4	1	1	1.000000	4	1.392750
			BIAS CORR	0.225686		
			VAR CCEFF	0.023481		0.115595
			EFFICIENCY	92.84		97.35
8	3	3	1	0.769177	1	0.166249
			2	0.082039	2	0.209999
			3	0.148784	3	1.590730
			BIAS CORR	0.288186		
			VAR CCEFF	0.022058		0.150556
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.15		37.19
8	3	2	1	0.810022	2	0.300240
			3	0.189978	3	1.594319
			BIAS CORR	0.287882		
			VAR CCEFF	0.022135		0.150924
			EFFICIENCY	99.65		99.76
8	3	1	1	1.000000	2	1.608089
			BIAS CORR	0.225686		
			VAR CCEFF	0.023481		0.152310

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		93.94
						98.85
8	2	2	1	0.784581	1	0.244372
			2	0.215419	2	2.399409
				BIAS CORR		0.261998
				VAR CCEFF		0.022512
				EFFICIENCY		100.00
				EFF(M/N)		95.20
8	2	1	1	1.000000	2	2.539464
				BIAS CORR		0.225686
				VAR CCEFF		0.023481
				EFFICIENCY		95.87
6	1	1	1	1.000000	1	4.430929
				BIAS CORR		0.225686
				VAR CCEFF		0.023481
				EFFICIENCY		100.00
				EFF(M/N)		91.27
9	9	9	1	0.741106	1	0.054426
			2	0.077815	2	0.068949
			3	0.049631	3	0.080509
			4	0.036024	4	0.090873
			5	0.027975	5	0.100874
			6	0.022541	6	0.111157
			7	0.018491	7	0.122530
			8	0.015111	8	0.136677
			9	0.011306	9	0.167202
				BIAS CORR		0.342114
				VAR CCEFF		0.018231
				EFFICIENCY		100.00
				EFF(M/N)		100.00
9	9	8	1	0.741445	2	0.098717
			2	0.077843	3	0.080513
			3	0.049647	4	0.090911
			4	0.036025	5	0.100928
			5	0.041105	6	0.111225
			7	0.027520	7	0.122608
			8	0.015108	8	0.136767

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
9	9	7	9	0.011307	5	0.167313
			BIAS CORR	0.341439		
			VAR CCEFF	0.018240		0.049764
			EFFICIENCY	99.95		99.93
			1	0.741848	2	0.138956
			2	0.077881	4	0.129575
			3	0.049656	5	0.101014
			4	0.051471	6	0.111346
			6	0.046281	7	0.122742
			8	0.021558	8	0.136928
9	9	6	9	0.011304	5	0.167513
			BIAS CORR	0.340579		
			VAR CCEFF	0.018250		0.049424
			EFFICIENCY	99.90		99.81
			1	0.742465	2	0.135229
			2	0.077025	4	0.185663
			3	0.068662	6	0.155387
			5	0.057580	7	0.123011
			7	0.038408	8	0.137254
			9	0.014960	9	0.167927
9	9	5	BIAS CORR	0.339013		
			VAR CCEFF	0.018265		0.049950
			EFFICIENCY	99.81		99.56
			1	0.743771	2	0.195960
			2	0.102879	5	0.208648
			4	0.075386	7	0.168432
			6	0.046315	8	0.137831
			8	0.031649	9	0.168675
			BIAS CORR	0.333189		
			VAR CCEFF	0.018298		0.050178
9	9	4	EFFICIENCY	99.63		99.11
			1	0.746243	2	0.253818
			2	0.103171	6	0.275270
			4	0.070424	8	0.182728
			7	0.060161	9	0.170393
			BIAS CORR	0.323211		
			VAR CCEFF	0.018360		0.050710

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.30
						98.07
9	9	3	1	0.786320	4	0.330932
			3	0.142695	7	0.316325
			7	0.070984	9	0.209825
				BIAS CORR		0.320401
				VAR CCEFF		0.018462
				EFFICIENCY		98.75
9	9	2	1	0.849375	6	0.522770
			5	0.150625	9	0.249324
				BIAS CORR		0.298284
				VAR CCEFF		0.018761
				EFFICIENCY		89.97
9	9	1	1	1.000000	8	0.680294
				BIAS CORR		0.208643
				VAR CCEFF		0.020068
				EFFICIENCY		90.85
9	8	8	1	0.742134	1	0.061202
			2	0.077919	2	0.077521
			3	0.049693	3	0.090484
			4	0.036064	4	0.102104
			5	0.027998	5	0.113246
			6	0.022546	6	0.124651
			7	0.018466	7	0.137047
			8	0.025179	8	0.320782
				BIAS CORR		0.335048
				VAR CCEFF		0.018257
				EFFICIENCY		100.00
				EFF(M/N)		99.86
9	8	7	1	0.742473	2	0.111003
			2	0.077947	3	0.090497
			3	0.049709	4	0.102155
			4	0.036066	5	0.113316
			5	0.041131	6	0.124738
			7	0.027498	7	0.137145
			8	0.025177	8	0.321020
				BIAS CORR		0.334373

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		
				0.018265 99.95		0.056005 99.92
9	8	6	1	0.742876	2	0.156255
			2	0.077985	4	0.145675
			3	0.049719	5	0.112429
			4	0.051524	6	0.124892
			6	0.046280	7	0.137316
			8	0.031616	8	0.321448
				BIAS CORR		
				0.333515		
				VAR CCEFF		0.056081
				EFFICIENCY		99.79
9	8	5	1	0.743771	2	0.156610
			2	0.102879	4	0.208679
			4	0.075386	6	0.174398
			6	0.046315	7	0.137659
			8	0.031649	8	0.322327
				BIAS CORR		
				0.333189		
				VAR CCEFF		0.056240
				EFFICIENCY		99.51
9	8	4	1	0.746243	2	0.220495
			2	0.103171	5	0.234450
			4	0.090424	7	0.188723
			7	0.060161	8	0.323902
				BIAS CORR		
				0.323211		
				VAR CCEFF		0.056528
				EFFICIENCY		99.00
9	8	3	1	0.786720	3	0.285891
			3	0.142695	6	0.309302
			7	0.070984	8	0.376364
				BIAS CORR		
				0.320401		
				VAR CCEFF		0.057198
				EFFICIENCY		97.84
9	8	2	1	0.849375	5	0.460059
			5	0.150625	8	0.428735
				BIAS CORR		
				0.298284		
				VAR CCEFF		0.058946
				0.018761		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		94.94
9	8	1	1	1.000000	8	0.680294
				BIAS CORR		
				VAR CCEFF		0.070803
				EFFICIENCY		79.04
9	7	7	1	0.743892	1	0.069888
			2	0.078092	2	0.088472
			3	0.049796	3	0.103256
			4	0.036122	4	0.116352
			5	0.028026	5	0.128956
			6	0.022533	6	0.141586
			7	0.041540	7	0.491469
				BIAS CORR		
				VAR CCEFF		0.064000
				EFFICIENCY		100.00
				EFF(M/N)		77.70
9	7	6	1	0.744230	2	0.126720
			2	0.078120	3	0.103281
			3	0.049812	4	0.116422
			4	0.036123	5	0.129049
			5	0.041152	6	0.141699
			7	0.050564	7	0.491882
				BIAS CORR		
				VAR CCEFF		0.064055
				EFFICIENCY		99.91
9	7	5	1	0.744756	2	0.178398
			2	0.078155	4	0.166076
			3	0.068842	5	0.129202
			5	0.057663	6	0.141901
			7	0.050583	7	0.492617
				BIAS CORR		
				VAR CCEFF		0.064154
				EFFICIENCY		99.76
9	7	4	1	0.746243	2	0.178871
			2	0.103171	4	0.237978
			4	0.090424	6	0.198366

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			7	0.060161	7	0.494114
			BIAS CORR	0.323211		
			VAR CCEFF	0.018360		0.064360
			EFFICIENCY	99.68		99.44
9	7	3	1	0.786320	2	0.251955
			3	0.142695	5	0.267162
			7	0.070984	7	0.554179
			BIAS CORR	0.320401		
			VAR CCEFF	0.018462		0.064733
9	7	2		99.12		98.87
			1	0.849375	4	0.417801
			5	0.150625	7	0.613635
			BIAS CORR	0.298284		
			VAR CCEFF	0.018761		0.065864
9	7	1		97.55		97.17
			1	1.000000	7	0.842115
			BIAS CORR	0.208643		
			VAR CCEFF	0.020068		0.072647
			EFFICIENCY	91.19		88.10
9	6	6	1	0.746556	1	0.081389
			2	0.078351	2	0.103013
			3	0.049934	3	0.120014
			4	0.036202	4	0.135200
			5	0.028043	5	0.149432
			6	0.060915	6	0.692649
			BIAS CORR	0.314949		
			VAR CCEFF	0.018366		0.074742
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.27		66.54
9	6	5	1	0.746941	2	0.147576
			2	0.078383	3	0.120059
			3	0.049943	4	0.135300
			4	0.051678	5	0.149570
			6	0.073054	6	0.692320
			BIAS CORR	0.314424		
			VAR CCEFF	0.018376		0.074816



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				99.95		99.90
			EFFICIENCY			
9	6	4	1	0.747845	2	0.207700
			2	0.103390	4	0.193067
			4	0.075648	5	0.149774
			6	0.073117	6	0.694514
			BIAS CORR	0.314077		
			VAR CCEFF	0.018399		0.074950
			EFFICIENCY	99.82		99.72
9	6	3	1	0.786697	2	0.208352
			3	0.126313	4	0.276553
			6	0.086990	6	0.761948
			BIAS CORR	0.312968		
			VAR CCEFF	0.018470		0.075227
			EFFICIENCY	99.44		99.36
9	6	2	1	0.849375	3	0.377368
			5	0.150625	6	0.827903
			BIAS CORR	0.298284		
			VAR CCEFF	0.018761		0.076026
			EFFICIENCY	97.90		98.31
9	6	1	1	1.000000	6	1.022779
			BIAS CORR	0.208643		
			VAR CCEFF	0.020069		0.080230
			EFFICIENCY	91.52		93.16
9	5	5	1	0.750490	1	0.097382
			2	0.078713	2	0.123056
			3	0.050131	3	0.143305
			4	0.036284	4	0.160969
			5	0.084383	5	0.943362
			BIAS CORR	0.301780		
			VAR CCEFF	0.018464		0.089821
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.74		55.37
9	5	4	1	0.751021	2	0.176409
			2	0.078749	3	0.143386
			3	0.069247	4	0.161119

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
9	5	3	5	0.100984	5	0.944437
			BIAS CORR	0.301336		
			VAR CCEFF	0.018477		0.089928
			EFFICIENCY	99.97		99.88
9	5	3	1	0.789468	2	0.248298
			3	0.109291	4	0.230186
			5	0.101241	5	0.946327
			BIAS CORR	0.301273		
			VAR CCEFF	0.018536		0.090119
9	5	2	1	0.849375	2	0.348823
			5	0.150625	5	1.025018
			BIAS CORR	0.298284		
			VAR CCEFF	0.018761		0.090586
			EFFICIENCY	98.42		99.16
9	5	1	1	1.000000	5	1.244141
			BIAS CORR	0.208643		
			VAR CCEFF	0.020068		0.093387
			EFFICIENCY	92.01		96.18
9	4	4	1	0.756361	1	0.121032
			2	0.079236	2	0.152769
			3	0.050377	3	0.177419
			4	0.114027	4	1.277900
			BIAS CORR	0.285980		
9	4	3				0.112521
			VAR CCEFF	0.018610		100.00
			EFFICIENCY	100.00		44.20
			EFF(M/N)	97.97		
9	4	2	1	0.757280	2	0.219140
			2	0.104461	3	0.177568
			4	0.138259	4	1.279665
			BIAS CORR	0.285604		
			VAR CCEFF	0.018633		0.112686
9	4	2				99.85
			EFFICIENCY	99.87		
			1	0.827009	2	0.308316
			4	0.172991	4	1.368014

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.284889	
				VAR CCEFF	0.018771	0.112979
				EFFICIENCY	99.14	99.59
9	4	1	1	1.000000	4	1.539899
				BIAS CORR	0.208643	
				VAR CCEFF	0.020068	0.114793
				EFFICIENCY	92.73	98.02
9	3	3	1	0.765523	1	0.159739
			2	0.079986	2	0.201073
			3	0.154490	2	1.770372
				BIAS CORR	0.266682	
				VAR CCEFF	0.018839	0.150551
				EFFICIENCY	100.00	100.00
				EFF(M/N)	96.78	33.03
9	3	2	1	0.804614	2	0.288797
			3	0.195386	2	1.773460
				BIAS CORR	0.266529	
				VAR CCEFF	0.018899	0.150838
				EFFICIENCY	99.68	99.81
9	3	1	1	1.000000	2	1.980556
				BIAS CORR	0.208643	
				VAR CCEFF	0.020068	0.151888
				EFFICIENCY	93.88	99.12
9	2	2	1	0.781199	1	0.234733
			2	0.218801	2	2.626854
				BIAS CORR	0.242205	
				VAR CCEFF	0.019234	0.227248
				EFFICIENCY	100.00	100.00
				EFF(M/N)	94.79	21.88
9	2	1	1	1.000000	2	2.762172
				BIAS CORR	0.208643	
				VAR CCEFF	0.020068	0.227868
				EFFICIENCY	95.84	99.73
9	1	1	1	1.000000	1	4.792875

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.208543	
				VAR CCEFF	0.020068	0.460998
				EFFICIENCY	100.00	100.00
				EFF(M/N)	90.85	10.77
10	10	10	1	0.735708	1	0.047360
			2	0.075932	2	0.059820
			3	0.048270	3	0.069632
			4	0.034994	4	0.078303
			5	0.027220	5	0.086504
			6	0.022028	6	0.094684
			7	0.018267	7	0.103287
			8	0.015282	8	0.112970
			9	0.012683	9	0.125186
			10	0.009617	10	0.152032
			BIAS CORR	0.327975		
			VAR CCEFF	0.015778	0.044730	
			EFFICIENCY	100.00	100.00	
			EFF(M/N)	100.00	100.00	
10	10	9	1	0.735948	2	0.085981
			2	0.075957	3	0.069627
			3	0.048276	4	0.078324
			4	0.035006	5	0.086534
			5	0.027216	6	0.094726
			6	0.032763	7	0.103333
			8	0.022539	8	0.113023
			9	0.012680	9	0.125246
			10	0.009617	10	0.152105
						BIAS CORR
			VAR CCEFF	0.015783	0.044751	
			EFFICIENCY	99.97	99.95	
10	10	8	1	0.736233	2	0.120224
			2	0.075974	4	0.112360
			3	0.048304	5	0.086574
			4	0.034994	6	0.094803
			5	0.034531	7	0.103399
			7	0.037378	8	0.113117
			9	0.017972	9	0.125345
			10	0.009614	10	0.152229

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
10	10	7		BIAS CORR	0.326721	
				VAR CCEFF	0.015789	0.044788
				EFFICIENCY	99.93	99.87
			1	0.736646	2	0.120358
			2	0.076023	4	0.158967
			3	0.048302	6	0.133968
			4	0.049628	7	0.103521
			6	0.045023	8	0.113286
			8	0.031719	9	0.125525
			10	0.012658	10	0.152460
10	10	6		BIAS CORR	0.325412	
				VAR CCEFF	0.015798	0.044857
				EFFICIENCY	99.87	99.72
			1	0.737441	3	0.169223
			2	0.099839	5	0.176971
			4	0.073246	7	0.144566
			6	0.045055	8	0.113539
			8	0.031748	9	0.125870
			10	0.012670	10	0.152874
				BIAS CORR	0.325206	
10	10	5		VAR CCEFF	0.015816	0.044981
				EFFICIENCY	99.76	99.44
			1	0.738671	3	0.215866
			2	0.099993	6	0.231690
			4	0.073332	8	0.155613
			6	0.056286	9	0.126526
			9	0.031717	10	0.153719
				BIAS CORR	0.318678	
				VAR CCEFF	0.015843	0.045235
				EFFICIENCY	99.59	98.88
10	10	4	1	0.775739	4	0.276828
			3	0.121985	7	0.256145
			6	0.070467	9	0.167653
			9	0.031809	10	0.155209
				BIAS CORR	0.318064	
				VAR CCEFF	0.015897	0.045691
				EFFICIENCY	99.25	97.90

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.780213	5	0.345742
			3	0.137617	8	0.292279
			7	0.082170	10	0.190392
		BIAS CORR		0.301737		
				0.015990		0.046832
				98.67		95.51
		EFFICIENCY				
10	10	2	1	0.841057	7	0.517429
			5	0.158943	10	0.228658
				0.279660		
		BIAS CORR		0.016257		0.050145
				97.06		89.20
		EFFICIENCY				
10	10	1	1	1.000000	9	0.655619
				0.194491		
				0.017439		0.064747
		BIAS CORR		90.48		69.08
		EFFICIENCY				
10	9	9	1	0.736544	1	0.052605
			2	0.076016	2	0.066432
			3	0.048322	3	0.077328
			4	0.035027	4	0.086909
			5	0.027244	5	0.096011
			6	0.022039	6	0.104988
			7	0.018267	7	0.114423
			8	0.015259	8	0.124842
			9	0.021283	9	0.289750
		BIAS CORR		0.322003		
				0.015796		0.049710
				100.00		100.00
		EFFICIENCY		99.89		89.48
		EFF(M/N)				
10	9	8	1	0.736783	2	0.095496
			2	0.076041	3	0.077326
			3	0.048327	4	0.086936
			4	0.035039	5	0.096050
			5	0.027239	6	0.105040
			6	0.032774	7	0.114480
			8	0.022516	8	0.124908
			9	0.021260	9	0.289944

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
10	9	7		BIAS CORR		
				VAR CCEFF		0.049736
				EFFICIENCY		99.95
			1	0.737067	2	0.133538
			2	0.076058	4	0.124747
			3	0.048356	5	0.096103
			4	0.035028	6	0.105135
			5	0.039561	7	0.114563
			7	0.037369	8	0.125023
			9	0.026561	9	0.290203
				BIAS CORR		
				VAR CCEFF		0.049782
				EFFICIENCY		99.86
10	9	6	1	0.737515	2	0.133708
			2	0.076087	4	0.176514
			3	0.066440	6	0.148035
			5	0.056003	7	0.114717
			7	0.037381	8	0.125230
			9	0.026573	9	0.290681
				BIAS CORR		
				VAR CCEFF		0.049866
				EFFICIENCY		99.69
10	9	5	1	0.738671	2	0.138021
			2	0.094993	5	0.196373
			4	0.073332	7	0.160291
			6	0.056285	8	0.125547
			9	0.031717	9	0.291562
				BIAS CORR		
				VAR CCEFF		0.050019
				EFFICIENCY		99.38
10	9	4	1	0.775739	2	0.239967
			3	0.121989	6	0.257234
			6	0.070467	8	0.172288
			9	0.031809	9	0.293307
				BIAS CORR		
				VAR CCEFF		0.050332
				EFFICIENCY		98.76

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
10	9	3	1	0.780213	4	0.307971
			3	0.137617	7	0.284309
			7	0.082170	9	0.340655
			BIAS CORR	0.301737		
			VAN CCEFF	0.015990		0.050893
			EFFICIENCY	98.78		97.69
10	9	2	1	0.841057	6	0.461540
			5	0.158963	9	0.390185
			BIAS CORR	0.279660		
			VAN CCEFF	0.016257		0.052739
			EFFICIENCY	97.17		94.26
10	9	1	1	1.000000	9	0.651619
			BIAS CORR	0.194491		
			VAN CCEFF	0.017439		0.064747
			EFFICIENCY	90.59		76.77
10	8	0	1	0.737936	1	0.059142
			2	0.076155	2	0.074636
			3	0.048400	3	0.086876
			4	0.035085	4	0.097658
			5	0.027270	5	0.107672
			6	0.022054	6	0.117753
			7	0.018250	7	0.128002
			8	0.014849	8	0.139745
			BIAS CORR	0.314405		
			VAN CCEFF	0.015826		0.055951
			EFFICIENCY	100.00		100.00
			EFFICIENCY	99.70		79.56
10	8	7	1	0.739176	2	0.107378
			2	0.076180	3	0.086840
			3	0.048406	4	0.097735
			4	0.035097	5	0.107722
			5	0.027265	6	0.117820
			6	0.022179	7	0.128073
			8	0.018247	8	0.144007
			BIAS CORR	0.311857		
			VAN CCEFF	0.015831		0.055955



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				99.97		99.94
				EFFICIENCY		
10	8	6	1	0.738487	2	0.150117
			2	0.076208	4	0.140214
			3	0.048412	5	0.107793
			4	0.049728	6	0.117938
			6	0.045061	7	0.128181
			8	0.042105	8	0.440452
			BIAS CORR	0.313513		
			VAR CCEFF	0.015838		0.056042
			EFFICIENCY	99.97		99.84
10	8	5	1	0.739285	2	0.150339
			2	0.100078	4	0.198317
			4	0.073399	6	0.166764
			6	0.045093	7	0.128379
			8	0.042144	8	0.441267
			BIAS CORR	0.313294		
			VAR CCEFF	0.015856		0.056149
			EFFICIENCY	99.81		99.65
10	8	4	1	0.741427	2	0.211443
			2	0.100302	5	0.220506
			4	0.100673	7	0.174579
			8	0.057598	8	0.442701
			BIAS CORR	0.309767		
			VAR CCEFF	0.015902		0.056342
			EFFICIENCY	99.52		99.31
10	8	3	1	0.780213	2	0.269981
			3	0.137617	6	0.288793
			7	0.082170	8	0.497198
			BIAS CORR	0.301737		
			VAR CCEFF	0.015990		0.056736
			EFFICIENCY	98.97		98.62
10	8	2	1	0.841057	2	0.422551
			5	0.158943	8	0.551954
			BIAS CORR	0.279660		
			VAR CCEFF	0.016257		0.057567
			EFFICIENCY	97.35		96.69

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
10	8	1	1	1.000000	6	0.800859
			BIAS CORR	0.194491		
			VAR COEFF	0.017438		0.064908
			EFFICIENCY	90.76		86.20
10	7	7	1	0.739993	1	0.067531
			2	0.076350	2	0.085169
			3	0.048527	3	0.099187
			4	0.035142	4	0.111144
			5	0.027317	5	0.122724
			6	0.022050	6	0.133736
			7	0.050621	7	0.611527
			BIAS CORR	0.305299		
			VAR COEFF	0.015870		0.063992
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.42		69.90
10	7	5	1	0.740249	2	0.122497
			2	0.076368	3	0.099200
			3	0.048543	4	0.111196
			4	0.035140	5	0.122791
			5	0.027335	6	0.133823
			7	0.050064	7	0.611928
			BIAS CORR	0.304881		
			VAR COEFF	0.015876		0.064036
			EFFICIENCY	99.97		99.91
10	7	5	1	0.740700	2	0.171343
			2	0.076398	4	0.159743
			3	0.066685	5	0.122890
			4	0.056130	6	0.133477
			7	0.060087	7	0.612620
			BIAS CORR	0.304583		
			VAR COEFF	0.015885		0.064110
			EFFICIENCY	99.90		99.81
10	7	4	1	0.741934	2	0.171641
			2	0.100352	4	0.227042
			4	0.047322	6	0.185684
			7	0.070352	7	0.613868

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR		
				VAR CCEFF		0.064249
				EFFICIENCY		99.60
			1	0.780213	3	0.241396
			3	0.137617	5	0.251196
			7	0.082170	7	0.673865
				BIAS CORR		
10	7	2		VAR CCEFF		0.064459
				EFFICIENCY		99.21
			1	0.841057	4	0.392753
			5	0.158943	7	0.733326
				BIAS CORR		
				VAR CCEFF		0.065275
				EFFICIENCY		98.03
10	7	1	1	1.000000	7	0.957165
				BIAS CORR		
				VAR CCEFF		0.069840
				EFFICIENCY		91.63
10	6	6	1	0.742925	1	0.078597
			2	0.076637	2	0.095228
			3	0.048667	3	0.115094
			4	0.035747	4	0.129310
			5	0.027341	5	0.142142
			6	0.064182	6	0.817287
				BIAS CORR		
				VAR CCEFF		0.074735
				EFFICIENCY		100.00
				EFF(M/N)		59.85
			1	0.743239	2	0.142688
			2	0.076665	3	0.115122
			3	0.048673	4	0.129384
10	6	5	4	0.049918	5	0.142236
			6	0.081506	6	0.817922
				BIAS CORR		
				VAR CCEFF		0.074755
				EFFICIENCY		99.92

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	0.744045	2	0.199411
			2	0.100665	4	0.185756
			4	0.073718	5	0.142376
			6	0.081572	6	0.818986
			BIAS CORR	0.293983		
			VAR CCEFF	0.015958		0.074896
			EFFICIENCY	99.84		99.79
10	6	3	1	0.781382	2	0.199823
			3	0.122722	4	0.262655
			6	0.095896	6	0.885171
			BIAS CORR	0.293293		
			VAR CCEFF	0.016014		0.075082
			EFFICIENCY	99.50		99.54
10	6	2	1	0.841057	2	0.357282
			5	0.158943	6	0.950151
			BIAS CORR	0.279660		
			VAR CCEFF	0.015257		0.075656
			EFFICIENCY	98.01		98.78
10	6	1	1	1.000000	6	1.140001
			BIAS CORR	0.194491		
			VAR CCEFF	0.017438		0.078688
			EFFICIENCY	91.37		94.93
10	5	5	1	0.747112	1	0.094040
			2	0.077013	2	0.118417
			3	0.048888	3	0.137543
			4	0.035339	4	0.152879
			5	0.091647	5	1.076461
			BIAS CORR	0.281947		
			VAR CCEFF	0.016024		0.089816
			EFFICIENCY	100.00		100.00
			EFF (M/N)	99.47		99.80
10	5	4	1	0.747567	2	0.170443
			2	0.077043	3	0.137597
			3	0.067134	4	0.152951
			5	0.108256	5	1.077443

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
10	5	3		BIAS CORR		
				VAR CCEFF		0.089902
				EFFICIENCY		99.90
			1	0.749630	2	0.238300
			2	0.121359	4	0.221424
			5	0.129011	5	1.079063
				BIAS CORR		
				VAR CCEFF		0.090045
				EFFICIENCY		99.75
10	5	2	1	0.841057	3	0.334629
			5	0.158943	5	1.155656
				BIAS CORR		
				VAR CCEFF		0.090400
				EFFICIENCY		99.35
			1	1.000000	5	1.369220
				BIAS CORR		
				VAR CCEFF		0.092490
				EFFICIENCY		97.11
10	4	4	1	0.753218	1	0.116819
			2	0.077560	2	0.147037
			3	0.049151	3	0.170240
			4	0.120071	4	1.425065
				BIAS CORR		
				VAR CCEFF		0.112517
				EFFICIENCY		100.00
				EFF(M/N)		39.75
10	4	3	1	0.754042	2	0.211711
			2	0.101796	3	0.170344
			4	0.144162	4	1.426645
				BIAS CORR		
				VAR CCEFF		0.112649
				EFFICIENCY		99.88
			1	0.820906	2	0.295824
			4	0.179094	4	1.512527
				BIAS CORR		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.112870 99.69
10	4	1	1	1.000000	4	1.679461
				BIAS CORR VAR CCEFF EFFICIENCY		0.194491 0.114269 98.47
10	3	3	1	0.762607	1	0.154142
			2	0.078335	2	0.193501
			3	0.159058	3	1.941584
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.248781 0.016361 100.00 96.44
10	3	2	1	0.800343	2	0.278937
			3	0.199657	2	1.944312
				BIAS CORR VAR CCEFF EFFICIENCY		0.248722 0.016409 99.70
10	3	1	1	1.000000	3	2.145392
				BIAS CORR VAR CCEFF EFFICIENCY		0.194491 0.017438 99.31
10	2	2	1	0.778496	1	0.226456
			2	0.221504	2	2.844994
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.225838 0.016709 100.00 19.69
10	2	1	1	1.000000	2	2.976070
				BIAS CORR VAR CCEFF EFFICIENCY		0.194491 0.017438 99.78
10	1	1	1	1.000000	1	5.141638
				BIAS CORR		0.194491



TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.811216	1	0.367034
			2	0.188784	2	0.659976
			BIAS CORR	0.709318		
			VAR CCEFF	0.117362		0.169927
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
2	2	1	1	1.000000	2	0.846099
			BIAS CORR	0.599341		
			VAR CCEFF	0.124932		0.184074
			EFFICIENCY	93.94		92.31
2	1	1	1	1.000000	1	1.668498
			BIAS CORR	0.599341		
			VAR CCEFF	0.124932		0.347796
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.94		48.86
3	3	3	1	0.736602	1	0.204649
			2	0.155663	2	0.308005
			3	0.107735	3	0.475650
			BIAS CORR	0.627416		
			VAR CCEFF	0.071162		0.112094
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
3	3	2	1	0.842558	2	0.408580
			3	0.157442	3	0.484601
			BIAS CORR	0.612968		
			VAR CCEFF	0.072797		0.114372
			EFFICIENCY	97.75		98.01
3	3	1	1	1.000000	3	0.741169
			BIAS CORR	0.475391		
			VAR CCEFF	0.078601		0.131286
			EFFICIENCY	90.54		85.38
3	2	2	1	0.756184	1	0.302058
			2	0.243816	2	1.010814
			BIAS CORR	0.566054		
			VAR CCEFF	0.073169		0.169705



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		66.05
3	2	1	1	1.000000	2	1.180299
				BIAS CORR		
				0.475391		
				VAR CCEFF		0.174712
				0.078601		97.13
				EFFICIENCY		
3	1	1	1	1.000000	1	2.103533
				BIAS CORR		
				0.475391		
				VAR CCEFF		0.347796
				0.078601		100.00
				EFFICIENCY		32.23
				EFF(M/N)		
4	4	4	1	0.695292	1	0.135713
			2	0.134973	2	0.196996
			3	0.097197	3	0.259499
			4	0.072538	4	0.374676
				BIAS CORR		
				0.577497		
				VAR CCEFF		0.083560
				0.049909		100.00
				EFFICIENCY		100.00
				EFF(M/N)		100.00
4	4	3	1	0.701924	2	0.267705
			2	0.197316	3	0.261145
			4	0.100760	4	0.377533
				BIAS CORR		
				0.567144		
				VAR CCEFF		0.084225
				0.050417		99.21
				EFFICIENCY		
4	4	2	1	0.784193	3	0.424197
			3	0.215807	4	0.392290
				BIAS CORR		
				0.532719		
				VAR CCEFF		0.087730
				0.051379		95.25
				EFFICIENCY		
4	4	1	1	1.000000	4	0.682753
				BIAS CORR		
				0.403327		
				VAR CCEFF		0.105046
				0.056577		79.55
				EFFICIENCY		
				88.21		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.706258	1	0.179933
			2	0.137482	2	0.259318
			3	0.157260	2	0.745923
		BIAS CORR		0.536958		
				0.050716		0.111940
				100.00		100.00
				98.41		74.65
4	3	2	1	0.784193	2	0.353931
			3	0.215807	2	0.753041
				0.532719		
		BIAS CORR		0.051379		0.113110
				98.71		98.97
4	3	1	1	1.000000	2	0.997106
				0.403327		
				0.056577		0.119315
		BIAS CORR		89.64		93.82
4	2	2	1	0.729472	1	0.264576
			2	0.270528	2	1.291661
				0.481308		
		BIAS CORR		0.052466		0.169642
				100.00		100.00
				95.13		49.26
4	2	1	1	1.000000	2	1.445960
				0.403327		
				0.056577		0.172184
		BIAS CORR		92.73		98.52
4	1	1	1	1.000000	1	2.479379
				0.403327		
				0.056577		0.347796
		BIAS CORR		100.00		100.00
				88.21		24.03
5	5	5	1	0.668269	1	0.098814
			2	0.122004	2	0.140709
			3	0.087528	3	0.179656
			4	0.068676	4	0.223552

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
5	5	4	5	0.033523	5	0.310424
			BIAS CORR	0.542719		
			VAR CCEFF	0.037912		0.066583
			EFFICIENCY	100.00		100.00
			EFF (M/N)	100.00		100.00
			1	0.671795	2	0.194354
			2	0.171174	3	0.180106
			4	0.103349	4	0.224338
			5	0.053683	5	0.311605
			BIAS CORR	0.539199		
5	5	3	1	0.735872	2	0.297299
			3	0.191083	4	0.298506
			5	0.073038	5	0.315555
			BIAS CORR	0.534035		
			VAR CCEFF	0.038482		0.067754
			EFFICIENCY	98.52		98.27
			1	0.754048	2	0.468784
			3	0.245952	3	0.392344
			BIAS CORR	0.472906		
			VAR CCEFF	0.039463		0.070519
5	5	2	1	0.754048	2	0.468784
			3	0.245952	3	0.392344
			BIAS CORR	0.472906		
			VAR CCEFF	0.039463		0.070519
			EFFICIENCY	96.07		94.42
			1	1.000000	2	0.644334
			BIAS CORR	0.355042		
			VAR CCEFF	0.043841		0.089213
			EFFICIENCY	86.48		74.63
			1	0.675302	1	0.123157
5	4	4	2	0.123130	2	0.175099
			3	0.088024	3	0.222034
			4	0.113545	4	0.597669
			BIAS CORR	0.513279		
			VAR CCEFF	0.038716		0.083456
			EFFICIENCY	100.00		100.00
			EFF (M/N)	98.94		74.78

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

n	m	L	i	LOCATION	i	SCALE
5	4	2	1	0.678969	2	0.242186
			2	0.172987	3	0.222797
			4	0.148550	4	0.600479
			BIAS CORR	0.509449		
			VAR CORR	0.018932		0.063461
			EFFICIENCY	77.46		77.57
5	4	2	1	0.736068	2	0.370617
			2	0.245957	3	0.649169
			4	0.472906		
			BIAS CORR	0.037861		0.085729
			VAR CORR	47.10		47.87
			EFFICIENCY			
5	4	1	1	1.000000	4	0.470551
			BIAS CORR	0.155067		
			VAR CORR	0.041861		0.097118
			EFFICIENCY	47.40		50.04
5	3	1	1	0.179011	1	0.163014
			2	0.174765	2	0.229760
			3	0.130791	3	0.766557
			BIAS CORR	0.475581		
			VAR CORR	0.010097		0.111467
			EFFICIENCY	100.00		100.00
5	3	2	1	0.774080	2	0.319711
			2	0.245957	3	0.670444
			3	0.472906		
			BIAS CORR	0.037861		0.117550
			VAR CORR	47.07		47.17
			EFFICIENCY			
5	3	1	1	1.000000	2	1.140671
			BIAS CORR	0.250087		
			VAR CORR	0.051861		0.113017
			EFFICIENCY	47.18		46.57
5	2	2	1	0.711865	1	0.235709
			2	0.245957	2	1.036109
			3	0.472906		
			BIAS CORR	0.047610		0.167615
			VAR CORR	0.064979		
			EFFICIENCY			

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFFIP/4)		99.26
5	2	1	1	1.000000	2	1.676941
				BIAS CORR		0.355047
				VAN CLEFT		0.043841
				EFFICIENCY		97.94
5	1	1	1	1.000000	1	2.014567
				BIAS CORR		0.355047
				VAN CLEFT		0.043841
				EFFICIENCY		100.00
				EFFIP/4)		86.48
6	6	6	1	0.448031	1	0.074709
			2	0.113117	2	0.107337
			3	0.080567	3	0.134808
			4	0.063847	4	0.157788
			5	0.052706	5	0.176813
			6	0.041837	6	0.194739
				BIAS CORR		0.355047
				VAN CLEFT		0.043841
				EFFICIENCY		100.00
				EFFIP/4)		100.00
6	6	6	1	0.448031	1	0.149739
			2	0.113117	2	0.134739
			3	0.080567	3	0.163799
			4	0.063847	4	0.194813
			5	0.052706	5	0.226817
			6	0.041837	6	0.266817
				BIAS CORR		0.355047
				VAN CLEFT		0.043841
				EFFICIENCY		97.94
6	6	6	1	0.448031	2	0.226817
			2	0.113117	4	0.273807
			3	0.080567	5	0.317781
			4	0.063847	6	0.361805
				BIAS CORR		0.355047
				VAN CLEFT		0.043841
				EFFICIENCY		97.94

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

P	N	L	LOCATION		SCALE	
			1	2	1	2
6	6	2	1	0.111800	1	0.333080
			2	0.119208	2	0.268613
			3	0.117612	3	0.271989
		BIAS CORR VAR CORR EFFICIENCY		0.496839		0.097612
				0.610882		91.15
				70.71		
6	6	7	1	0.114091	4	0.471891
			2	0.225901	5	0.335658
			3	0.460165		
		BIAS CORR VAR CORR EFFICIENCY		0.611641		0.099710
				93.11		92.15
6	6	8	1	1.000000	6	0.611877
			2	0.319718		
			3	0.655900		0.076661
		BIAS CORR VAR CORR EFFICIENCY		85.10		12.15
6	6	9	1	0.051728	1	0.091870
			2	0.111919	2	0.178191
			3	0.061076	3	0.161292
			4	0.061031	4	0.197887
			5	0.061031	5	0.501500
		BIAS CORR VAR CORR EFFICIENCY		0.491892		0.081510
				0.606870		109.00
				100.00		83.11
				92.25		
6	6	10	1	0.458770	7	0.115819
			2	0.116117	8	0.161876
			3	0.110171	9	0.191129
			4	0.111981	10	0.507815
			5	0.491071		
		BIAS CORR VAR CORR EFFICIENCY		0.610010		0.061606
				97.69		99.15
6	6	11	1	0.117180	7	0.268613
			2	0.119208	8	0.268613
			3	0.117612	9	0.500001
			4	0.490839		

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 7 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
6	5	7	1	0.030842	1	0.067157
			4	98.47	2	99.64
			BIAS CORR	0.774593	3	0.394767
			VAR COEFF	0.225407	4	0.584748
6	5	1	1	0.460169	1	0.648334
			4	0.611641	2	97.37
			BIAS CORR	56.47	3	0.831422
			VAR COEFF	1.000000	4	0.071663
6	5	1	1	0.317714	1	87.44
			4	0.535545	2	0.071663
			BIAS CORR	89.74	3	0.113744
			VAR COEFF	0.000000	4	0.184844
6	5	1	1	0.081674	1	0.148687
			4	0.140447	2	0.148687
			BIAS CORR	0.446169	3	0.148687
			VAR COEFF	0.011446	4	0.083417
6	5	1	1	100.00	1	100.00
			4	97.40	2	66.31
			BIAS CORR	0.664774	3	0.773344
			VAR COEFF	0.130134	4	0.145084
6	5	1	1	0.176876	1	0.783013
			4	0.443604	2	0.083687
			BIAS CORR	5.011060	3	94.61
			VAR COEFF	94.61	4	0.083687
6	5	1	1	0.773493	1	0.329184
			4	0.225407	2	0.871550
			BIAS CORR	0.460169	3	0.084407
			VAR COEFF	0.611641	4	98.83
6	5	1	1	97.37	1	1.063783
			4	1.000000	2	1.063783
			BIAS CORR	0.317714	3	0.088767
			VAR COEFF	0.035545	4	94.50
6	5	1	1	89.74	1	0.088767
			4	0.000000	2	94.50
			BIAS CORR	0.000000	3	0.088767
			VAR COEFF	0.000000	4	94.50

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.777330	1	0.130420
			2	0.117255	2	0.205478
			3	0.205414	3	0.154748
		BIAS CORR		0.420461		
				0.631642		0.111423
				100.00		100.00
				95.73		49.46
6	3	2	1	0.734433	2	0.294101
			3	0.274567	3	1.155188
				0.427889		
		BIAS CORR		0.631878		0.112140
				100.00		99.54
				99.76		
6	3	1	1	1.000000	1	1.371376
				0.317914		
				0.035545		0.114114
		BIAS CORR		100.00		97.84
6	2	2	1	0.703213	1	0.270491
			2	0.296787	2	1.791549
				0.382487		
		BIAS CORR		0.612045		0.125602
				100.00		100.00
				97.04		87.67
6	2	1	1	1.000000	2	1.554368
				0.317914		
				0.035545		0.170679
		BIAS CORR		100.00		99.40
6	1	1	1	1.000000	1	3.125438
				0.317914		
				0.035545		0.347774
		BIAS CORR		100.00		100.00
				95.10		15.91
7	7	7	1	0.711680	1	0.641317
			2	0.106674	2	0.085655
			3	0.15374	3	0.101311
			4	0.093721	4	0.126644



TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

n	m	L	i	LOCATION	i	SCALE
7	7	6	5	0.049126	2	0.142526
			6	0.041607	2	0.175287
			7	0.034011	7	0.232753
			BIAS CORR	0.495062		
			VAN CLIFF	0.025067		0.047327
			EFFICIENCY	100.00		100.00
			EFF (P/H)	100.00		100.00
7	7	6	1	0.615224	2	0.120487
			2	0.106886	3	0.106184
			3	0.075374	4	0.126787
			4	0.088584	5	0.148701
			6	0.059914	6	0.175916
			7	0.034011	7	0.233068
			BIAS CORR	0.493422		
7	7	5	1	0.616967	2	0.173478
			2	0.107014	4	0.177051
			3	0.107884	5	0.148780
			4	0.103147	6	0.176069
			5	0.044984	7	0.233772
			BIAS CORR	0.489064		
			VAN CLIFF	0.029180		0.047939
7	7	4	1	0.640688	2	0.258614
			2	0.149467	3	0.204809
			4	0.124569	6	0.177093
			5	0.089181	7	0.235402
			BIAS CORR	0.474576		
			VAN CLIFF	0.025132		0.047878
			EFFICIENCY	98.43		98.81
7	7	3	1	0.694370	4	0.392009
			2	0.196841	5	0.237221
			4	0.108786	7	0.234949
			BIAS CORR	0.470512		
			VAN CLIFF	0.025574		0.048842
			EFFICIENCY	97.97		96.90

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
7	7	2	1	0.753796	1	0.480932
			4	0.246704	7	0.301910
			BIAS CORR		0.031455	
			VAN CEEFF		91.50	
			EFFICIENCY		91.50	
7	7	1	1	1.000000	1	0.704759
			BIAS CORR		0.063126	
			VAN CEEFF		72.40	
			EFFICIENCY		72.40	
			BIAS CORR		0.059277	
7	6	6	1	0.637640	1	0.071470
			2	0.107261	2	0.044628
			3	0.075740	3	0.123642
			4	0.059534	4	0.147509
			5	0.049193	5	0.171414
			6	0.030661	6	0.433640
			BIAS CORR		0.059277	
			VAN CEEFF		100.00	
			EFFICIENCY		100.00	
			EFFICIENCY		89.67	
			BIAS CORR		0.059277	
7	6	5	1	0.630706	2	0.140420
			2	0.107476	3	0.123647
			3	0.075740	4	0.147709
			4	0.059534	5	0.171454
			5	0.049193	6	0.433640
			BIAS CORR		0.059277	
			VAN CEEFF		0.059277	
			EFFICIENCY		99.00	
			EFFICIENCY		99.00	
			BIAS CORR		0.059277	
			VAN CEEFF		0.059277	
7	6	4	1	0.640600	2	0.207541
			2	0.149962	4	0.207540
			4	0.125569	6	0.172036
			6	0.099181	6	0.433612
			BIAS CORR		0.059277	
			VAN CEEFF		0.059277	
			EFFICIENCY		99.90	
			EFFICIENCY		99.90	
			BIAS CORR		0.059277	
			VAN CEEFF		0.059277	
			EFFICIENCY		99.90	
7	6	3	1	0.649970	2	0.301466

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			3	0.196843	2	0.237412
			6	0.108786	6	0.439360
			BIAS CORR	0.470532		
			VAR COEFF	0.025574		0.096051
			EFFICIENCY	98.56		98.62
7	6	2	1	0.753796	4	0.415595
			4	0.246704	6	0.514913
			BIAS CORR	0.424697		
			VAR COEFF	0.026325		0.057130
			EFFICIENCY	95.75		96.42
7	6	1	1	1.000000	6	0.784459
			BIAS CORR	0.292940		
			VAR COEFF	0.022846		0.069366
			EFFICIENCY	84.46		84.57
7	5	3	1	0.643915	1	0.085594
			2	0.108207	2	0.118999
			3	0.076447	3	0.140347
			4	0.059640	4	0.174225
			5	0.111744	5	0.160101
			BIAS CORR	0.434617		
			VAR COEFF	0.025496		0.066480
			EFFICIENCY	100.00		100.00
			EFFICIENCY	98.44		71.19
7	4	2	1	0.645753	1	0.167850
			2	0.108911	2	0.148458
			3	0.104007	4	0.174514
			5	0.111424	5	0.061259
			BIAS CORR	0.433711		
			VAR COEFF	0.025510		0.066607
			EFFICIENCY	99.79		99.81
7	3	1	1	0.646438	2	0.242517
			3	0.164922	4	0.244944
			5	0.118140	5	0.061853
			BIAS CORR	0.433414		
			VAR COEFF	0.025667		0.066495
			EFFICIENCY	99.18		99.18

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.753796	2	0.360864
			4	0.246204	5	0.745883
			BIAS CORR		0.424697	
			VAR COEFF		0.026329	
			EFFICIENCY		96.70	
7	5	1	1	1.000000	2	0.975826
			BIAS CORR		0.292940	
			VAR COEFF		0.029846	
			EFFICIENCY		92.40	
7	4	4	1	0.653701	1	0.106346
			2	0.109758	1	0.148428
			3	0.077080	3	0.182008
			4	0.159481	4	0.940044
			BIAS CORR		0.426757	
7	4	3	VAR COEFF		0.025849	
			EFFICIENCY		100.00	
			EFF (M/L)		96.95	
7	4	2	1	0.653547	2	0.204217
			2	0.148515	2	0.182222
			4	0.175938	4	0.942105
			BIAS CORR		0.435840	
			VAR COEFF		0.025926	
7	4	1	EFFICIENCY		99.70	
7	4	2	1	0.753796	2	0.301215
			4	0.246204	4	1.032351
			BIAS CORR		0.424697	
			VAR COEFF		0.026329	
			EFFICIENCY		98.19	
7	4	1	1	1.000000	4	1.207589
			BIAS CORR		0.292940	
			VAR COEFF		0.029846	
			EFFICIENCY		96.61	
7	3	1	1	0.669264	1	0.140646
			2	0.111766	2	0.194071

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
7	3	2	3	0.218970	3	1.325130
			BIAS CORR	0.392882		
			VAR COEFF	0.025474		0.111850
			EFFICIENCY	100.00		100.00
			EFF (M/N)	94.66		42.31
7	3	2	1	0.722733	2	0.274686
			3	0.277267	3	1.328772
			BIAS CORR	0.392768		
			VAR COEFF	0.026441		0.112192
			EFFICIENCY	99.37		99.69
7	3	1	1	1.000000	3	1.931431
			BIAS CORR	0.292940		
			VAR COEFF	0.029846		0.113549
			EFFICIENCY	88.70		98.51
7	2	2	1	0.695786	1	0.205916
			2	0.304214	2	1.950507
			BIAS CORR	0.350382		
			VAR COEFF	0.027556		0.165559
			EFFICIENCY	100.00		100.00
7	2	1	1	1.000000	2	2.071117
			BIAS CORR	0.292940		
			VAR COEFF	0.029846		0.110329
			EFFICIENCY	92.33		99.57
7	1	1	1	1.000000	1	3.411672
			BIAS CORR	0.292940		
			VAR COEFF	0.029846		0.341790
			EFFICIENCY	100.00		100.00
			EFF (M/N)	83.97		13.61
10	8	4	1	0.622108	1	0.050753
			2	0.101747	2	0.070379
			3	0.071386	3	0.086880
			4	0.055859	4	0.102489
			5	0.046417	5	0.118494
			6	0.039689	6	0.137229

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			7	0.034300	7	0.158416
			8	0.028458	8	0.207355
			BIAS CORR	0.478908		
			VAR COEFF	0.071268		0.041343
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
8	8	7	1	0.622926	2	0.099727
			2	0.101902	3	0.086865
			3	0.071331	4	0.102562
			4	0.091864	5	0.118536
			6	0.099231	6	0.136343
			7	0.034292	7	0.158555
			8	0.028494	8	0.207542
			BIAS CORR	0.477783		
			VAR COEFF	0.021247		0.041101
			EFFICIENCY	99.87		99.51
8	8	6	1	0.623961	2	0.141358
			2	0.101914	4	0.144586
			3	0.100761	5	0.118540
			5	0.095983	6	0.136647
			7	0.040899	7	0.158916
			8	0.028482	8	0.207319
			BIAS CORR	0.476340		
			VAR COEFF	0.021332		0.041458
			EFFICIENCY	99.70		99.72
8	8	5	1	0.625540	2	0.210215
			2	0.117021	3	0.186125
			4	0.116818	6	0.136828
			6	0.083195	7	0.159567
			8	0.037417	8	0.208409
			BIAS CORR	0.473605		
			VAR COEFF	0.021391		0.041640
			EFFICIENCY	99.42		99.29
8	8	4	1	0.629853	2	0.211781
			2	0.117892	3	0.250810
			4	0.144150	7	0.211331
			7	0.008105	8	0.210425

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
8	8	1	1	0.457384		
			3	0.021539		0.042003
			6	98.74		98.43
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
8	8	2	1	0.681457	4	0.377952
			3	0.184813	7	0.258654
			6	0.133730	8	0.215433
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
8	8	3	1	0.441517		0.043029
			3	0.021774		96.08
			6	97.69		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
8	8	4	1	0.769430	5	0.517939
			3	0.230570	8	0.306110
			6	0.418760		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
8	8	5	1	0.022442		0.045537
			3	94.77		90.72
			6			
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
8	8	6	1	1.000000	7	0.749737
			3	0.271419		
			6	0.025621		0.057731
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
8	7	7	1	83.01		71.61
			2	0.624975	1	0.057973
			3	0.102200	2	0.080354
			4	0.071690	3	0.099150
			5	0.056089	4	0.116644
			6	0.046620	5	0.135389
			7	0.039648	6	0.153944
			8	0.038783	7	0.182971
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFFICIENCY		
8	7	6	1	0.463799		0.047286
			2	0.021767		100.00
			3	100.00		87.43
			4	99.54		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFFICIENCY		
			1	0.625800	2	0.113492
			2	0.102194	3	0.099149
			3	0.071635	4	0.116747
			4	0.082167	5	0.135457
			5	0.059275	6	0.154093
			6	0.058767	7	0.183360
			7	0.462645		
				BIAS CORR		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	i	LOCATION	i	SCALE
8	7	5		VAR CCEFF EFFICIENCY		0.021396 99.86 0.047335 99.90
			1	0.626933	2	0.167181
			2	0.102367	4	0.165210
			3	0.101164	5	0.135536
			5	0.096247	6	0.154476
			7	0.073388	7	0.384124
				BIAS CORR		
				0.461212		
				VAR CCEFF		0.047435
				EFFICIENCY		99.69
8	7	4	1	0.629853	3	0.240020
			2	0.137892	5	0.184833
			4	0.144150	6	0.154004
			7	0.088109	7	0.386082
				BIAS CORR		
				0.457384		
				VAR CCEFF		0.047673
				EFFICIENCY		99.19
			1	0.681457	3	0.242059
			3	0.184813	5	0.285934
8	7	3	6	0.133730	7	0.446716
				BIAS CORR		
				0.441517		
				VAR CCEFF		0.048137
				EFFICIENCY		98.23
			1	0.769430	4	0.432779
			5	0.230570	7	0.507203
				BIAS CORR		
				0.418360		
				VAR CCEFF		0.049479
8	7	2		EFFICIENCY		95.57
			1	1.000000	7	0.745737
				BIAS CORR		
				0.271419		
				VAR CCEFF		0.057731
				EFFICIENCY		81.91
			1	0.679684	1	0.067547
			2	0.102932	2	0.093577
			3	0.072114	3	0.114958



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.056565	4	0.136717
			5	0.046547	5	0.154976
			6	0.092158	6	0.574363
			BIAS CORR	0.445005		
			VAR CCEFF	0.021529		0.055254
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.79		74.82
8	6	5	1	0.630507	2	0.132676
			2	0.103088	3	0.114971
			3	0.072059	4	0.136860
			4	0.082606	5	0.155129
			6	0.111740	6	0.575034
			BIAS CORR	0.443863		
			VAR CCEFF	0.021557		0.055321
			EFFICIENCY	99.87		99.88
8	6	4	1	0.631954	2	0.186734
			2	0.138327	4	0.193124
			4	0.117765	5	0.155220
			6	0.111954	6	0.576452
			BIAS CORR	0.443434		
			VAR CCEFF	0.021610		0.055455
			EFFICIENCY	99.62		99.64
8	6	3	1	0.681457	2	0.189603
			3	0.184817	4	0.280975
			6	0.133730	6	0.644981
			BIAS CORR	0.441517		
			VAR CCEFF	0.021774		0.055777
			EFFICIENCY	98.87		99.06
8	6	2	1	0.769430	4	0.380722
			5	0.230570	6	0.653704
			BIAS CORR	0.418360		
			VAR CCEFF	0.022442		0.056569
			EFFICIENCY	95.93		97.68
8	6	1	1	1.000000	6	0.913736
			BIAS CORR	0.271419		
			VAR CCEFF	0.025621		0.061157

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		84.03
						90.35
8	5	5	1	0.636727	1	0.080845
			2	0.103949	2	0.111498
			3	0.072980	3	0.138082
			4	0.056617	4	0.160117
			5	0.129728	5	0.795175
			BIAS CORR	0.422652		
			VAR CCEFF	0.021771		0.066465
			EFFICIENCY	100.00		100.00
			EFF (M/N)	97.69		62.20
8	5	4	1	0.637733	2	0.158230
			2	0.104005	3	0.138731
			3	0.102644	4	0.160318
			5	0.155618	5	0.800261
			BIAS CORR	0.421846		
			VAR CCEFF	0.018000		0.066560
			EFFICIENCY	98.84		99.86
8	5	3	1	0.686134	2	0.226083
			3	0.157519	4	0.228313
			5	0.156347	5	0.802291
			BIAS CORR	0.422231		
			VAR CCEFF	0.021924		0.066756
			EFFICIENCY	99.30		99.56
8	5	2	1	0.769430	2	0.334400
			4	0.230570	5	0.881026
			BIAS CORR	0.418360		
			VAR CCEFF	0.022442		0.067207
			EFFICIENCY	97.01		98.90
8	5	1	1	1.000000	2	1.100455
			BIAS CORR	0.271419		
			VAR CCEFF	0.025621		0.070052
			EFFICIENCY	84.47		94.88
8	4	4	1	0.647146	1	0.100315
			2	0.105618	2	0.139459
			3	0.073561	3	0.169196

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.173675	4	1.083673
			BIAS CORR	0.396180		
			VAR CCEFF	0.022132		0.083306
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.10		49.58
8	4	3	1	0.648657	2	0.197635
			2	0.141598	3	0.169309
			4	0.209745	4	1.085485
			BIAS CORR	0.395648		
			VAR CCEFF	0.022187		0.083533
			EFFICIENCY	99.75		99.82
d	4	2	1	0.739616	2	0.280490
			4	0.260384	4	1.171378
			BIAS CORR	0.395377		
			VAR CCEFF	0.022483		0.083824
			EFFICIENCY	98.44		99.48
8	4	1	1	1.000000	4	1.337834
			BIAS CORR	0.271419		
			VAR CCEFF	0.025621		0.085567
			EFFICIENCY	86.38		97.45
8	3	3	1	0.663265	1	0.132777
			2	0.107652	2	0.181888
			3	0.229083	3	1.481296
			BIAS CORR	0.364375		
			VAR CCEFF	0.022691		0.111842
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.73		36.97
8	3	2	1	0.713495	2	0.259025
			3	0.286505	3	1.484350
			BIAS CORR	0.364495		
			VAR CCEFF	0.022818		0.112099
			EFFICIENCY	99.44		99.77
8	3	1	1	1.000000	3	1.677042
			BIAS CORR	0.271419		
			VAR CCEFF	0.025621		0.113077

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		98.91
				88.56		
4	2	2	1	0.690237	1	0.194133
			2	0.309763	2	2.135571
				BIAS CORR		
				0.324750		
				VAR CCEFF		0.169590
				0.023640		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		24.38
				89.97		
8	2	1	1	1.000000	2	2.254356
				BIAS CORR		
				0.271419		
				VAR CCEFF		0.170141
				0.025621		
				EFFICIENCY		99.68
				92.27		
8	1	1	1	1.000000	1	3.684343
				BIAS CORR		
				0.271419		
				VAR CCEFF		0.347796
				0.025621		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		11.89
				83.01		
9	9	9	1	0.612345	1	0.042960
			2	0.097856	2	0.055289
			3	0.068223	3	0.072812
			4	0.053196	4	0.085334
			5	0.044142	5	0.097763
			6	0.037846	6	0.110862
			7	0.03062	7	0.125761
			8	0.028992	8	0.144630
			9	0.024336	9	0.187163
				BIAS CORR		
				0.464651		
				VAR CCEFF		0.036702
				0.018405		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
9	9	8	1	0.612914	2	0.084417
			2	0.097919	3	0.072783
			3	0.068360	4	0.085382
			4	0.053032	5	0.097802
			5	0.045707	6	0.110926
			7	0.048782	7	0.125835
			8	0.028924	8	0.144720

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
9	9	7	9	0.024363	9	0.187280
			BIAS CORR	0.463713		
			VAR CCEFF	0.018422		0.036725
			EFFICIENCY	99.91		99.94
			1	0.613581	2	0.119109
			2	0.098085	4	0.121700
			3	0.068161	5	0.097686
			4	0.076990	6	0.111153
			6	0.077860	7	0.125941
			8	0.040989	8	0.144887
9	9	6	9	0.024334	9	0.187499
			BIAS CORR	0.462482		
			VAR CCEFF	0.018443		0.036769
			EFFICIENCY	99.79		99.82
			1	0.614653	2	0.119280
			2	0.098085	4	0.174379
			3	0.095518	6	0.155268
			5	0.090892	7	0.125887
			7	0.069081	8	0.145327
			9	0.031771	9	0.187939
9	9	5	BIAS CORR	0.460070		
			VAR CCEFF	0.018475		0.036859
			EFFICIENCY	99.62		99.57
			1	0.616871	3	0.176456
			2	0.131185	5	0.202266
			4	0.134652	7	0.173100
			7	0.085418	8	0.145558
			9	0.031874	9	0.188794
			BIAS CORR	0.458055		
			VAR CCEFF	0.018545		0.037022
9	9	4	EFFICIENCY	99.25		99.14
			1	0.662849	3	0.228755
			3	0.148825	6	0.274561
			5	0.114260	8	0.193579
			8	0.074066	9	0.190540
			BIAS CORR	0.447089		
			VAR CCEFF	0.018662		0.037408

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		98.62
9	9	3	1	0.670444	4	0.309550
			3	0.200660	7	0.324400
			7	0.128896	9	0.233307
			BIAS CORR	0.429483		
			VAR CCEFF	0.018880		0.038285
			EFFICIENCY	97.48		95.86
9	9	2	1	0.754252	6	0.519540
			5	0.245748	9	0.278115
			BIAS CORR	0.394015		
			VAR CCEFF	0.019483		0.040693
			EFFICIENCY	94.47		90.19
9	9	1	1	1.000000	6	0.721868
			BIAS CORR	0.253752		
			VAR CCEFF	0.022395		0.051994
			EFFICIENCY	82.19		70.59
9	8	8	1	0.614653	1	0.048310
			2	0.098217	2	0.066664
			3	0.068465	3	0.081816
			4	0.053377	4	0.095883
			5	0.044241	5	0.109455
			6	0.038011	6	0.124973
			7	0.032981	7	0.139786
			8	0.050055	8	0.343507
			BIAS CORR	0.451842		
			VAR CCEFF	0.018475		0.041312
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.62		88.84
9	8	7	1	0.615226	2	0.094929
			2	0.098281	3	0.081790
			3	0.068602	4	0.095944
			4	0.053212	5	0.109508
			5	0.065899	6	0.125054
			7	0.048769	7	0.139879
			8	0.050010	8	0.343748
			BIAS CORR	0.450882		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
9	8	6		VAR CCEFF EFFICIENCY	0.018492 99.91	0.041342 99.93
			1	0.615888	2	0.133933
			2	0.098446	4	0.136848
			3	0.068401	5	0.109394
			4	0.077224	6	0.125328
			6	0.078019	7	0.140017
			8	0.062021	8	0.344198
				BIAS CORR	0.449674	
				VAR CCEFF	0.018512	0.041397
				EFFICIENCY	99.80	99.80
9	8	5	1	0.617091	2	0.134164
			2	0.131235	4	0.195824
			4	0.111395	6	0.174781
			6	0.078150	7	0.139994
			8	0.062129	8	0.345215
				BIAS CORR	0.449503	
				VAR CCEFF	0.018551	0.041510
				EFFICIENCY	99.59	99.52
			1	0.662849	2	0.198537
			3	0.148825	5	0.227353
9	8	4	5	0.114260	7	0.193343
			8	0.074066	8	0.206506
				BIAS CORR	0.447089	
				VAR CCEFF	0.018662	0.041718
				EFFICIENCY	98.99	99.03
			1	0.670444	2	0.257491
			3	0.200660	6	0.308386
			7	0.128896	8	0.402068
				BIAS CORR	0.429483	
				VAR CCEFF	0.018880	0.042196
9	8	3		EFFICIENCY	97.85	97.91
			1	0.754252	5	0.444243
			5	0.245748	8	0.457460
				BIAS CORR	0.394015	
				VAR CCEFF	0.019483	0.043460

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		95.06
				94.82		
9	8	1	1	1.000000	8	0.721868
				BIAS CORR		
				0.253752		
				VAR CCEFF		0.051994
				0.022395		
				EFFICIENCY		79.46
				82.50		
9	7	7	1	0.618340	1	0.055177
			2	0.098781	2	0.076059
			3	0.068850	3	0.093406
			4	0.053566	4	0.108674
			5	0.044659	5	0.126424
			6	0.037791	6	0.135490
			7	0.078012	7	0.509865
				BIAS CORR		
				0.436088		
				VAR CCEFF		0.047269
				0.018586		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		77.65
				99.03		
9	7	6	1	0.618907	2	0.108352
			2	0.098843	3	0.093386
			3	0.068987	4	0.108754
			4	0.053402	5	0.126497
			5	0.066192	6	0.139595
			7	0.093669	7	0.510268
				BIAS CORR		
				0.435149		
				VAR CCEFF		0.047307
				0.018603		
				EFFICIENCY		99.92
				99.91		
9	7	5	1	0.619697	2	0.152914
			2	0.098866	4	0.155485
			3	0.096219	5	0.126393
			5	0.091464	6	0.139930
			7	0.093754	7	0.510978
				BIAS CORR		
				0.434687		
				VAR CCEFF		0.047379
				0.018627		
				EFFICIENCY		99.77
				99.78		
9	7	4	1	0.621947	2	0.153246
			2	0.132224	4	0.223720
			4	0.135554	6	0.197143



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
9	7	3	7	0.110274	7	0.512219
			BIAS CORR	0.432575		
			VAR CCEFF	0.018698		0.047531
			EFFICIENCY	99.40		99.45
			1	0.670444	3	0.226488
			3	0.200660	5	0.259129
			7	0.128896	7	0.573380
			BIAS CORR	0.429483		
			VAR CCEFF	0.018880		0.047786
			EFFICIENCY	98.44		98.92
9	7	2	1	0.754252	4	0.390858
			5	0.245748	7	0.634489
			BIAS CORR	0.394015		
			VAR CCEFF	0.019483		0.048609
			EFFICIENCY	95.40		97.24
9	7	1	1	1.000000	7	0.866872
			BIAS CORR	0.253752		
			VAR CCEFF	0.022395		0.053490
			EFFICIENCY	82.99		88.37
9	6	6	1	0.623668	1	0.064244
			2	0.099600	2	0.088604
			3	0.069276	3	0.107867
			4	0.054265	4	0.128780
			5	0.044362	5	0.142565
			6	0.108829	6	0.698476
			BIAS CORR	0.417594		
			VAR CCEFF	0.018747		0.055242
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.18		66.44
9	6	5	1	0.624272	2	0.126220
			2	0.099731	3	0.107856
			3	0.069183	4	0.128892
			4	0.078122	5	0.142665
			6	0.128693	6	0.699113
			BIAS CORR	0.416924		
			VAR CCEFF	0.018766		0.055294

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.90
						99.91
9	6	4	1	0.625503	2	0.177720
			2	0.132897	4	0.182908
			4	0.112686	6	0.142571
			6	0.128914	8	0.700398
				BIAS CORR		0.055390
				VAR COEFF		99.73
				EFFICIENCY		99.69
9	6	3	1	0.672145	2	0.178170
			3	0.176252	4	0.259976
			6	0.151603	6	0.766491
				BIAS CORR		0.055573
				VAR COEFF		99.37
				EFFICIENCY		99.05
9	6	2	1	0.754252	2	0.340022
			5	0.245748	6	0.832188
				BIAS CORR		0.056166
				VAR COEFF		98.35
				EFFICIENCY		96.22
9	6	1	1	1.000000	6	1.024506
				BIAS CORR		0.059182
				VAR COEFF		93.34
				EFFICIENCY		93.71
9	5	5	1	0.631235	1	0.076874
			2	0.190647	2	0.105360
			3	0.070302	3	0.131133
			4	0.054193	4	0.149012
			5	0.143662	5	0.424801
				BIAS CORR		0.062456
				VAR COEFF		100.00
				EFFICIENCY		95.73
				EFF (P/N)		96.49
9	5	4	1	0.732048	2	0.150340
			2	0.190647	3	0.131145
			3	0.047914	4	0.149168

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			5	0.169361	1	0.925776
			BIAS CORR	0.395579		
			VAR CCEFF	0.019001		0.066530
			EFFICIENCY	99.87		99.89
4	5	3	1	0.678030	2	0.213048
			3	0.151876	4	0.214919
			5	0.170093	5	0.927413
			BIAS CORR	0.396056		
			VAR CCEFF	0.019094		0.066672
			EFFICIENCY	99.38		99.68
4	5	2	1	0.754252	3	0.314275
			5	0.245748	5	1.002625
			BIAS CORR	0.394015		
			VAR CCEFF	0.019483		0.066993
			EFFICIENCY	97.40		99.20
4	5	1	1	1.000000	5	1.212840
			BIAS CORR	0.253752		
			VAR CCEFF	0.022355		0.069006
			EFFICIENCY	84.73		96.30
4	4	4	1	0.642102	1	0.095271
			2	0.102411	2	0.132174
			3	0.070819	3	0.158852
			4	0.184667	4	1.215484
			BIAS CORR	0.370916		
			VAR CCEFF	0.019307		0.083379
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.33		44.02
4	4	3	1	0.643394	2	0.188038
			2	0.136368	3	0.158943
			4	0.220238	4	1.217071
			BIAS CORR	0.370599		
			VAR CCEFF	0.019348		0.083493
			EFFICIENCY	99.79		99.86
4	4	2	1	0.729111	2	0.264148
			4	0.270889	4	1.299078

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.370803		
				0.019578		0.083701
				98.61		99.61
9	4	1	1	1.000000	4	1.458044
				0.253752		
				0.022395		0.084954
				86.21		98.10
9	3	3	1	0.658628	1	0.126190
			2	0.104453	2	0.171917
			3	0.236920	3	1.626490
				BIAS CORR		
				0.340904		
				VAR CCEFF		0.111836
				0.019810		100.00
				EFFICIENCY		32.82
				100.00		
				92.91		
9	3	2	1	0.706464	2	0.246012
			3	0.293536	3	1.629097
				BIAS CORR		
				0.341154		
				VAR CCEFF		0.112037
				0.019910		99.82
				EFFICIENCY		
				99.50		
9	3	1	1	1.000000	3	1.813214
				BIAS CORR		
				0.253752		
				VAR CCEFF		0.112778
				0.022395		99.17
				EFFICIENCY		
				88.46		
9	2	2	1	0.685934	1	0.184335
			2	0.314066	2	2.309442
				BIAS CORR		
				0.303688		
				VAR CCEFF		0.169587
				0.020652		100.00
				EFFICIENCY		21.64
				100.00		
				89.12		
9	2	1	1	1.000000	2	2.422767
				BIAS CORR		
				0.253752		
				VAR CCEFF		0.170016
				0.022395		99.75
				EFFICIENCY		
				92.22		
9	1	1	1	1.000000	1	3.940852

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.253752		
			VAR CCEFF	0.022395		0.347796
			EFFICIENCY	100.00		100.00
			EFF(M/N)	82.19		10.55
10	10	10	1	0.604115	1	0.037010
			2	0.094699	2	0.050885
			3	0.065654	3	0.062241
			4	0.050979	4	0.072601
			5	0.042242	5	0.082664
			6	0.036213	6	0.092951
			7	0.031775	7	0.104007
			8	0.028168	8	0.116789
			9	0.024985	9	0.133149
			10	0.021170	10	0.170703
			BIAS CORR	0.452421		
			VAR CCEFF	0.016174		0.032997
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
		9	1	0.604531	2	0.072729
			2	0.094731	3	0.062208
			3	0.065800	4	0.072636
			4	0.050758	5	0.082680
			5	0.062100	6	0.092992
			7	0.047856	7	0.104048
			8	0.027998	8	0.116842
			9	0.025052	9	0.133209
			10	0.021176	10	0.170781
			BIAS CORR	0.451867		
			VAR CCEFF	0.016185		0.033012
			EFFICIENCY	99.93		99.95
10	10	8	1	0.604989	2	0.101932
			2	0.094889	4	0.104271
			3	0.065520	5	0.082500
			4	0.073147	6	0.093207
			6	0.074077	7	0.104064
			8	0.041272	8	0.116947
			9	0.024898	9	0.133308
			10	0.021207	10	0.170918

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
10	10	7	BIAS CORR		0.451225	
			VAR CCEFF		0.016198	
			EFFICIENCY		99.85	
			1	0.605672	2	0.101989
			2	0.094796	4	0.147421
			3	0.091241	6	0.131890
			5	0.086757	7	0.103706
			7	0.065233	8	0.117325
			9	0.035126	9	0.133458
			10	0.021176	10	0.171171
			BIAS CORR		0.450316	
			VAR CCEFF		0.016215	
			EFFICIENCY		99.74	
					0.033088	
					99.72	
10	10	6	1	0.606790	2	0.150582
			2	0.125982	5	0.169108
			4	0.106534	7	0.145972
			6	0.074258	8	0.116846
			8	0.058893	9	0.133959
			10	0.027542	10	0.171602
			BIAS CORR		0.448456	
			VAR CCEFF		0.016248	
			EFFICIENCY		99.54	
					0.033176	
					99.46	
			1	0.609356	3	0.192262
			2	0.126520	6	0.227464
			4	0.128097	8	0.161242
			7	0.082346	9	0.134197
10	10	5	9	0.053680	10	0.172592
			BIAS CORR		0.438054	
			VAR CCEFF		0.016317	
			EFFICIENCY		99.12	
					0.033360	
					98.91	
			1	0.653074	4	0.255728
			3	0.167008	7	0.257962
			6	0.116336	9	0.178550
			9	0.063582	10	0.174062
			BIAS CORR		0.436468	
			VAR CCEFF		0.016409	
			EFFICIENCY		98.57	
					0.033688	
					97.95	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.693032	5	0.329172
			4	0.198152	6	0.301884
			8	0.108816	10	0.213364
			BIAS CORR	0.422862		
			VAR CCEFF	0.016628		0.034509
			EFFICIENCY	97.27		95.62
10	10	2	1	0.742836	7	0.519326
			5	0.257164	10	0.255831
			BIAS CORR	0.372812		
			VAR CCEFF	0.017187		0.036901
			EFFICIENCY	94.10		89.42
10	10	1	1	1.000000	5	0.699109
			BIAS CORR	0.238926		
			VAR CCEFF	0.019854		0.047517
			EFFICIENCY	81.46		69.44
10	9	9	1	0.606020	1	0.041111
			2	0.094992	2	0.056504
			3	0.065856	3	0.065135
			4	0.051122	4	0.080527
			5	0.042363	5	0.091776
			6	0.036256	6	0.102688
			7	0.031925	7	0.116050
			8	0.028062	8	0.128077
			9	0.043404	9	0.311855
			BIAS CORR	0.441366		
			VAR CCEFF	0.016225		0.036677
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.69		89.96
10	9	8	1	0.606437	2	0.080774
			2	0.095023	3	0.069101
			3	0.066002	4	0.080579
			4	0.050900	5	0.091798
			5	0.062245	6	0.102738
			7	0.048025	7	0.116101
			8	0.027892	8	0.128141
			9	0.043475	9	0.312012

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
10	9	7		BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.440805		0.036696
				0.016236		99.95
				99.93		
			1	0.606901	2	0.113223
			2	0.095183	4	0.115730
			3	0.065722	5	0.091607
			4	0.073354	6	0.102985
10	9	6	6	0.074264	7	0.116129
			8	0.041228	8	0.128268
			9	0.043349	9	0.312281
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.440147		0.036729
				0.016249		99.86
				99.85		
			1	0.607579	2	0.113305
10	9	5	2	0.095089	4	0.163670
			3	0.091514	6	0.145962
			5	0.086971	7	0.115752
			7	0.065337	8	0.128706
			9	0.053511	9	0.312742
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.439260		0.036790
				0.016267		99.69
10	9	4		99.74		
			1	0.609356	2	0.167293
			2	0.126520	5	0.187544
			4	0.128097	7	0.162510
			7	0.082346	8	0.128207
			9	0.053680	9	0.312840
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.438054		0.036898
10	9	3		0.016317		99.40
				99.44		
			1	0.653074	2	0.213724
			3	0.167008	6	0.252651
			6	0.116336	8	0.177875
			9	0.063582	9	0.315222
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.436468		0.037127
10	9	2		0.016409		98.79
				98.88		



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
10	9	3	1	0.693032	4	0.284280
			4	0.198152	7	0.286273
			8	0.108816	9	0.365663
			BIAS CORR	0.422862		
			VAR CCEFF	0.016628		0.037523
			EFFICIENCY	97.57		97.75
10	9	2	1	0.742836	6	0.451552
			5	0.257164	9	0.418317
			BIAS CORR	0.372812		
			VAR CCEFF	0.017187		0.038861
			EFFICIENCY	94.40		94.38
10	9	1	1	1.000000	9	0.695109
			BIAS CORR	0.238926		
			VAR CCEFF	0.019854		0.047517
			EFFICIENCY	81.72		77.19
10	8	0	1	0.608995	1	0.046217
			2	0.095453	2	0.063571
			3	0.066141	3	0.077531
			4	0.051374	4	0.090691
			5	0.042410	5	0.102041
			6	0.036681	6	0.117607
			7	0.031595	7	0.126750
			8	0.067350	8	0.459394
			BIAS CORR	0.427888		
			VAR CCEFF	0.016305		0.041298
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.20		79.50
10	8	7	1	0.609403	2	0.090860
			2	0.095524	3	0.077497
			3	0.066130	4	0.090745
			4	0.051556	5	0.102072
			5	0.042139	6	0.117672
			6	0.054953	7	0.126813
			8	0.080294	8	0.459653
			BIAS CORR	0.427103		
			VAR CCEFF	0.016316		0.041322

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.94
10	8	6	1	0.609868	2	0.127266
			2	0.095643	4	0.130180
			3	0.066007	5	0.101867
			4	0.073631	6	0.117963
			6	0.074520	7	0.126856
			8	0.080331	8	0.460116
			BIAS CORR	0.426694		
			VAR CCEFF	0.016329		0.041363
			EFFICIENCY	99.85		99.84
10	8	5	1	0.610920	2	0.127380
			2	0.126816	4	0.183523
			4	0.107169	6	0.165786
			6	0.074643	7	0.126454
			8	0.080452	8	0.461148
			BIAS CORR	0.426632		
			VAR CCEFF	0.016359		0.041439
			EFFICIENCY	99.67		99.66
10	8	4	1	0.654349	3	0.188145
			3	0.143946	5	0.211134
			5	0.107733	7	0.180074
			8	0.093973	8	0.461929
			BIAS CORR	0.425528		
			VAR CCEFF	0.016441		0.041582
			EFFICIENCY	99.17		99.32
10	8	3	1	0.693032	3	0.240110
			4	0.198152	6	0.283741
			8	0.108816	8	0.517860
			BIAS CORR	0.422862		
			VAR CCEFF	0.016628		0.041854
			EFFICIENCY	98.05		98.67
10	8	2	1	0.742836	5	0.405209
			5	0.257164	8	0.574507
			BIAS CORR	0.372812		
			VAR CCEFF	0.017187		0.042678
			EFFICIENCY	94.87		96.77

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
10	8	1	1	1.000000	8	0.829946
			BIAS CORR	0.238926		
			VAR CCEFF	0.019854		0.047756
			EFFICIENCY	82.12		86.49
10	7	7	1	0.613194	1	0.052798
			2	0.096065	2	0.072374
			3	0.066609	3	0.088802
			4	0.051488	4	0.101908
			5	0.043139	5	0.120143
			6	0.036107	6	0.128167
			7	0.093398	7	0.622439
			BIAS CORR	0.412228		
			VAR CCEFF	0.016417		0.047259
			EFFICIENCY	100.00		100.07
10	7	6	EFF(M/N)	98.52		69.82
			1	0.613608	2	0.103557
			2	0.096096	3	0.088771
			3	0.066754	4	0.101974
			4	0.051268	5	0.120189
			5	0.062939	6	0.128248
			7	0.109335	7	0.622932
			BIAS CORR	0.411673		
			VAR CCEFF	0.016429		0.047290
			EFFICIENCY	99.93		99.93
10	7	5	1	0.614272	2	0.145280
			2	0.096097	4	0.147168
			3	0.092359	5	0.119976
			5	0.087804	6	0.128594
			7	0.109427	7	0.623453
			BIAS CORR	0.411377		
			VAR CCEFF	0.016446		0.047344
			EFFICIENCY	99.82		99.82
10	7	4	1	0.616092	2	0.145462
			2	0.127860	4	0.210063
			4	0.129294	6	0.184969
			7	0.126754	7	0.624291

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR	0.410070	
				VAR CCEFF	0.016498	0.047449
				EFFICIENCY	99.51	99.60
			1	0.661947	3	0.214283
			3	0.191442	5	0.240729
			7	0.146611	7	0.683680
				BIAS CORR	0.408316	
				VAR CCEFF	0.016634	0.047612
				EFFICIENCY	98.70	99.26
10	7	2	1	0.742836	4	0.362762
			5	0.257164	7	0.743868
				BIAS CORR	0.372812	
				VAR CCEFF	0.017187	0.048182
				EFFICIENCY	95.52	98.08
			1	1.000000	7	0.967289
				BIAS CORR	0.238926	
				VAR CCEFF	0.019854	0.051469
				EFFICIENCY	82.69	91.82
10	6	6	1	0.618947	1	0.061403
			2	0.096960	2	0.084488
			3	0.066983	3	0.101823
			4	0.052451	4	0.122787
			5	0.042518	5	0.132481
			6	0.122141	6	0.811014
				BIAS CORR	0.394252	
				VAR CCEFF	0.016572	0.055234
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.59	59.74
10	6	5	1	0.619421	2	0.120767
			2	0.097080	3	0.101796
			3	0.066859	4	0.122882
			4	0.074725	5	0.132544
			6	0.141914	6	0.811609
				BIAS CORR	0.393822	
				VAR CCEFF	0.016586	0.055276
				EFFICIENCY	99.92	99.92

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	0.620501	2	0.168638
			2	0.128659	4	0.174736
			4	0.108699	5	0.132313
			6	0.142141	6	0.812787
			BIAS CORR	0.393710		
			VAR CCEFF	0.016616		0.055347
			EFFICIENCY	99.74		99.80
10	6	3	1	0.665043	2	0.168873
			3	0.169755	4	0.244149
			6	0.165202	6	0.875983
			BIAS CORR	0.393260		
			VAR CCEFF	0.016711		0.055475
			EFFICIENCY	99.17		99.57
10	6	2	1	0.742836	3	0.318152
			5	0.257164	6	0.940061
			BIAS CORR	0.372812		
			VAR CCEFF	0.017187		0.055856
			EFFICIENCY	96.42		98.82
10	6	1	1	1.000000	6	1.124266
			BIAS CORR	0.238926		
			VAR CCEFF	0.019854		0.058073
			EFFICIENCY	83.47		95.11
10	5	5	1	0.626900	1	0.073507
			2	0.098008	2	0.100031
			3	0.068176	3	0.125076
			4	0.052134	4	0.139872
			5	0.154782	5	1.040396
			BIAS CORR	0.373600		
			VAR CCEFF	0.016787		0.066449
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.35		49.66
10	5	4	1	0.627588	2	0.143481
			2	0.098011	3	0.125064
			3	0.094256	4	0.140000
			5	0.180146	5	1.041269

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.5

N	M	L	I	LOCATION	I	SCALE	
10	5	3		BIAS CORR		0.373267	
				VAR COEFF		0.016805	
				EFFICIENCY		99.89	
		2	1	0.671711	2	0.202354	
			3	0.147412	4	0.203759	
			5	0.100878	5	1.042606	
	5	2		BIAS CORR		0.373791	
				VAR COEFF		0.016881	
				EFFICIENCY		99.44	
		1	1	0.742836	2	0.298116	
			3	0.257164	5	1.114437	
				BIAS CORR		0.372812	
10	5	2		VAR COEFF		0.017187	
				EFFICIENCY		97.67	
		1	1	1.000000	5	1.316585	
				BIAS CORR		0.238975	
				VAR COEFF		0.019811	
				EFFICIENCY		84.55	
	4	4	1	0.638099	1	0.90963	
			2	0.099856	2	0.126110	
			3	0.068613	3	0.150331	
			4	0.143472	4	1.338147	
		3		BIAS CORR		0.342618	
				VAR COEFF		0.017091	
10	4	3		EFFICIENCY		100.00	
				EFF (M/N)		96.63	
		2	1	0.639238	2	0.179916	
			3	0.132768	3	0.150344	
			4	0.228494	4	1.339551	
		1		BIAS CORR		0.349429	
	4			VAR COEFF		0.017125	
				EFFICIENCY		99.81	
	2	1	0.720999	2	0.250764		
		4	0.279001	4	1.418070		
			BIAS CORR		0.349909		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.083621 99.70
10	4	1	1	1.000000	4	1.570561
				BIAS CORR VAR COEFF EFFICIENCY		0.238926 0.019854 86.08
10	3	3	1	0.654935	1	0.120597
			2	0.101894	2	0.163546
			3	0.243171	3	1.762878
				BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)		0.321164 0.017546 100.00 92.18
10	3	2	1	0.700929	2	0.234957
			3	0.299071	3	1.765138
				BIAS CORR VAR COEFF EFFICIENCY		0.321488 0.017628 99.53
10	3	1	1	1.000000	3	1.941790
				BIAS CORR VAR COEFF EFFICIENCY		0.238926 0.019854 88.37
10	2	2	1	0.682498	1	0.176013
			2	0.317502	2	2.474087
				BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)		0.286000 0.018302 100.00 88.37
10	2	1	1	1.000000	2	2.582700
				BIAS CORR VAR COEFF EFFICIENCY		0.238926 0.019854 92.18
10	1	1	1	1.000000	1	4.185403
				BIAS CORR		0.238926

GAW/MATH/6E-1

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				VAK CCEFF	0.019854	0.347796
				EFFICIENCY	100.00	100.00
				EFF(M/N)	81.46	9.49



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.750000	1	0.340784
			2	0.250000	2	0.686374
			BIAS CORR	0.756442		
			VAR CCEFF	0.097320		0.132149
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
2	2	1	1	1.000000	2	0.872755
			BIAS CORR	0.626657		
			VAR CCEFF	0.107301		0.142552
			EFFICIENCY	90.70		92.70
2	1	1	1	1.000000	1	1.595769
			BIAS CORR	0.626657		
			VAR CCEFF	0.107301		0.273240
			EFFICIENCY	100.00		100.00
			EFF(M/N)	90.70		48.36
3	3	3	1	0.656510	1	0.183909
			2	0.191052	2	0.301298
			3	0.152438	3	0.502022
			BIAS CORR	0.696278		
			VAR CCEFF	0.061216		0.086796
			EFFICIENCY	100.00		100.00
3	3	2	1	0.780059	2	0.397825
			3	0.219941	3	0.510864
			BIAS CORR	0.682933		
			VAR CCEFF	0.063179		0.088469
			EFFICIENCY	96.89		98.11
3	3	1	1	1.000000	2	0.774970
			BIAS CORR	0.511663		
			VAR CCEFF	0.071534		0.101060
			EFFICIENCY	85.58		85.89
3	2	2	1	0.685511	1	0.271246
			2	0.314489	2	1.005333
			BIAS CORR	0.620156		
			VAR CCEFF	0.064081		0.101909

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		65.80
3	2	1	1	1.000000	2	1.167345
				BIAS CORR		
				0.511663		
				VAR CCEFF		0.135579
				0.071534		
				EFFICIENCY		97.29
				89.58		
3	1	1	1	1.000000	1	1.954410
				BIAS CORR		
				0.511663		
				VAR CCEFF		0.273240
				0.071534		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		31.77
				85.58		
4	4	4	1	0.605149	1	0.119282
			2	0.160140	2	0.187382
			3	0.127280	3	0.259792
			4	0.107432	4	0.398981
				BIAS CORR		
				0.658958		
				VAR CCEFF		0.064546
				0.044056		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
4	4	3	1	0.613654	2	0.253426
			2	0.239026	3	0.261295
			4	0.147320	4	0.401849
				BIAS CORR		
				0.647929		
				VAR CCEFF		0.065034
				0.044717		
				EFFICIENCY		99.25
				98.52		
4	4	2	1	0.709804	3	0.422881
			3	0.290196	4	0.416866
				BIAS CORR		
				0.603552		
				VAR CCEFF		0.067647
				0.046081		
				EFFICIENCY		95.42
				95.60		
4	4	1	1	1.000000	4	0.720159
				BIAS CORR		
				0.443113		
				VAR CCEFF		0.080597
				0.053650		
				EFFICIENCY		80.08
				82.12		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.621585	1	0.158120
			2	0.163564	2	0.246479
			3	0.214852	3	0.756175
			BIAS CORR	0.606747		
			VAR CCEFF	0.045282		0.086630
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.29		74.51
4	3	2	1	0.09804	2	0.334798
			3	0.90196	3	0.762915
			BIAS CORR	0.603552		
			VAR CCEFF	0.046081		0.087488
			EFFICIENCY	98.27		99.02
4	3	1	1	1.000000	3	1.004040
			BIAS CORR	0.443113		
			VAR CCEFF	0.053650		0.092105
			EFFICIENCY	84.40		94.06
4	2	2	1	0.654703	1	0.232302
			2	0.345297	2	1.250589
			BIAS CORR	0.537794		
			VAR CCEFF	0.047814		0.131841
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.14		48.96
4	2	1	1	1.000000	2	1.394092
			BIAS CORR	0.443113		
			VAR CCEFF	0.053650		0.133703
			EFFICIENCY	89.12		98.61
4	1	1	1	1.000000	1	2.256758
			BIAS CORR	0.443113		
			VAR CCEFF	0.053650		0.273240
			EFFICIENCY	100.00		100.00
			EFF(M/N)	82.12		23.62
5	5	5	1	0.571628	1	0.085396
			2	0.141441	2	0.131219
			3	0.110663	3	0.175414
			4	0.094237	4	0.226949

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			5	0.082031	5	0.332623
			BIAS CORR	0.632615		
			VAR CCEFF	0.034139		0.051353
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.575891	2	0.180332
			2	0.201391	3	0.175806
			4	0.140246	4	0.227684
			5	0.082473	5	0.333823
			BIAS CORR	0.629265		
			VAR CCEFF	0.034411		0.051544
			EFFICIENCY	99.21		99.63
5	5	3	1	0.646463	2	0.276439
			3	0.242640	4	0.303018
			5	0.110897	5	0.337952
			BIAS CORR	0.624083		
			VAR CCEFF	0.034857		0.052234
			EFFICIENCY	97.94		98.31
5	5	2	1	0.729783	2	0.456122
			4	0.270217	5	0.419465
			BIAS CORR	0.585037		
			VAR CCEFF	0.036231		0.054310
			EFFICIENCY	94.23		94.56
5	5	1	1	1.000000	5	0.684012
			BIAS CORR	0.396333		
			VAR CCEFF	0.042920		0.068308
			EFFICIENCY	79.54		75.18
5	4	4	1	0.582312	1	0.106484
			2	0.143813	2	0.163119
			3	0.112080	3	0.216715
			4	0.161794	4	0.613182
			BIAS CORR	0.593573		
			VAR CCEFF	0.034785		0.064434
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.14		79.70

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.586689	2	0.224559
			2	0.204547	3	0.217390
			4	0.208764	4	0.615839
			BIAS CORR	0.589966		
			VAR CCEFF	0.035064		0.064732
			EFFICIENCY	99.21		99.54
5	4	2	1	0.729783	2	0.344425
			4	0.270217	4	0.715218
			BIAS CORR	0.585037		
			VAR CCEFF	0.036231		0.065789
			EFFICIENCY	96.01		97.94
5	4	1	1	1.000000	4	0.913514
			BIAS CORR	0.396333		
			VAR CCEFF	0.042920		0.070950
			EFFICIENCY	81.05		90.82
5	3	3	1	0.601712	1	0.140810
			2	0.147722	2	0.214261
			3	0.250566	3	0.954276
			BIAS CORR	0.544040		
			VAR CCEFF	0.035972		0.086573
			EFFICIENCY	100.00		100.00
5	3	2	1	0.674527	2	0.295914
			3	0.325473	3	0.959402
			BIAS CORR	0.543315		
			VAR CCEFF	0.036416		0.087094
			EFFICIENCY	98.78		99.40
5	3	1	1	1.000000	3	1.179345
			BIAS CORR	0.396333		
			VAR CCEFF	0.042920		0.089504
			EFFICIENCY	83.81		96.73
5	2	2	1	0.636601	1	0.206476
			2	0.363399	2	1.456861
			BIAS CORR	0.481333		
			VAR CCEFF	0.038144		0.131813

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
5	2	1		EFFICIENCY		100.00
				EFF(M/N)		38.96
			1	1.000000	2	1.586706
				BIAS CORR		
5	1	1		VAR CCEFF		0.132936
				EFFICIENCY		99.15
			1	1.000000	1	2.523133
				BIAS CORR		
6	6	6		VAR CCEFF		0.273240
				EFFICIENCY		100.00
				EFF(M/N)		18.79
			1	0.547521	1	0.065040
6	6	5	2	0.128874	2	0.098558
			3	0.099400	3	0.129280
			4	0.084092	4	0.161704
			5	0.074226	5	0.201330
			6	0.065887	6	0.286084
				BIAS CORR		
				VAR CCEFF		0.042629
				EFFICIENCY		100.00
				EFF(M/N)		100.00
			1	0.549991	2	0.136952
			2	0.129311	3	0.129389
			3	0.147022	4	0.161970
6	6	4	5	0.107607	5	0.201719
			6	0.066068	6	0.286674
				BIAS CORR		
				VAR CCEFF		0.042719
				EFFICIENCY		99.79
			1	0.553520	2	0.202181
			2	0.179989	4	0.222073
			4	0.179212	5	0.202712
			6	0.087280	6	0.288274
				BIAS CORR		
				VAR CCEFF		0.042969
				EFFICIENCY		99.21

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE		
6	6	3	1	0.618560	3	0.318302		
			3	0.217329	5	0.270126		
			5	0.164111	6	0.292212		
		BIAS CORR		0.579467				
		VAR CCEFF		0.028504		0.043591		
		EFFICIENCY		97.26		97.79		
		6	6	2	1	0.691782	4	0.472214
4	0.308218				6	0.364830		
BIAS CORR					0.540978			
VAR CCEFF				0.029641		0.045595		
EFFICIENCY				93.53		93.50		
6	6			1	1	1.000000	5	0.854376
					BIAS CORR		0.361801	
		VAR CCEFF			0.035767		0.058439	
		EFFICIENCY			77.51		72.95	
6	5	5	1	0.555103	1	0.077955		
			2	0.130555	2	0.117951		
			3	0.100559	3	0.154329		
			4	0.084784	4	0.192026		
			5	0.128999	5	0.518955		
		BIAS CORR		0.581763				
		VAR CCEFF		0.028109		0.051275		
		EFFICIENCY		100.00		100.00		
		EFF(M/N)		98.62		83.14		
		6	5	4	1	0.557614	2	0.164036
					2	0.131001	3	0.154522
					3	0.148578	4	0.192420
5	0.162807				5	0.520208		
BIAS CORR					0.578678			
VAR CCEFF				0.028240		0.051404		
EFFICIENCY				99.53		99.75		
6	5	3	1	0.618560	2	0.242200		
			3	0.217329	4	0.264479		
			5	0.164111	5	0.523520		
			BIAS CORR		0.579467			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.051760 99.06
6	5	2	1	0.691782	3	0.381304
			4	0.308218	5	0.609156
				BIAS CORR		
				VAR CCEFF		0.052648
				EFFICIENCY		97.39
6	5	1	1	1.000000	5	0.854376
				BIAS CORR		
				VAR CCEFF		0.058439
				EFFICIENCY		87.74
6	4	4	1	0.567980	1	0.097070
			2	0.133281	2	0.146436
			3	0.102270	3	0.190588
			4	0.196470	4	0.782603
				BIAS CORR		
				VAR CCEFF		0.064392
				EFFICIENCY		100.00
				EFF (M/N)		66.20
6	4	3	1	0.570876	2	0.203940
			2	0.185012	3	0.190937
			4	0.244112	4	0.784870
				BIAS CORR		
				VAR CCEFF		0.064552
				EFFICIENCY		99.69
6	4	2	1	0.691782	2	0.300984
			4	0.308218	4	0.878712
				BIAS CORR		
				VAR CCEFF		0.065137
				EFFICIENCY		98.86
6	4	1	1	1.000000	4	1.060256
				BIAS CORR		
				VAR CCEFF		0.068015
				EFFICIENCY		94.67



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.588812	1	0.128169
			2	0.137387	2	0.192244
			3	0.273801	3	1.121585
		2		BIAS CORR		
				VAR CCEFF		0.086547
				EFFICIENCY		100.00
				EFF(M/N)		49.26
6	3	2	1	0.653016	2	0.268417
			3	0.346984	3	1.125611
				BIAS CORR		
		1		VAR CCEFF		0.086896
				EFFICIENCY		99.60
6	3	1	1	1.000000	3	1.328510
				BIAS CORR		
				VAR CCEFF		0.088380
				EFFICIENCY		97.93
		2				
6	2	2	1	0.624679	1	0.187726
			2	0.375321	2	1.638122
				BIAS CORR		
		1		VAR CCEFF		0.131799
				EFFICIENCY		100.00
				EFF(M/N)		32.34
6	2	1	1	1.000000	2	1.157490
				BIAS CORR		
				VAR CCEFF		0.132550
				EFFICIENCY		99.43
		1				
6	1	1	1	1.000000	1	2.763953
				BIAS CORR		
				VAR CCEFF		0.273240
		1		EFFICIENCY		100.00
				EFF(M/N)		15.60
7	7	7	1	0.529076	1	0.051685
			2	0.119812	2	0.077568
			3	0.091284	3	0.100550
			4	0.076643	4	0.123563

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
7	7	6	5	0.067499	5	0.149012
			6	0.060895	6	0.181000
			7	0.054792	7	0.251522
			BIAS CORR	0.576629		
			VAR CCEFF	0.023251		0.036435
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			1	0.530642	2	0.108650
			2	0.120079	3	0.100572
			3	0.131907	4	0.123693
7	7	5	5	0.101450	5	0.149179
			6	0.060998	6	0.181224
			7	0.054925	7	0.251846
			BIAS CORR	0.595308		
			VAR CCEFF	0.023322		0.036482
			EFFICIENCY	99.70		99.87
			1	0.532688	2	0.157118
			2	0.164494	4	0.172674
			4	0.160561	5	0.149531
			6	0.087180	6	0.181728
7	7	4	7	0.055076	7	0.252598
			BIAS CORR	0.593666		
			VAR CCEFF	0.023417		0.036595
			EFFICIENCY	99.29		99.50
			1	0.587001	3	0.243708
			3	0.197409	5	0.205355
			5	0.143317	6	0.182907
			7	0.072273	7	0.254383
			BIAS CORR	0.590923		
			VAR CCEFF	0.023604		0.036862
7	7	3	EFFICIENCY	98.50		98.84
			1	0.596212	4	0.346319
			3	0.242238	6	0.244762
			6	0.161551	7	0.259074
			BIAS CORR	0.564459		
			VAR CCEFF	0.023983		0.037514
			EFFICIENCY	96.95		96.97

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
7	7	2	1	0.706812	5	0.481145
			5	0.293188	7	0.325417
			BIAS CORR	0.535109		
			VAR CCEFF	0.025118		0.035543
			EFFICIENCY	92.57		92.14
7	7	1	1	1.000000	6	0.811968
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.050157
			EFFICIENCY	75.84		72.64
7	6	6	1	0.534784	1	0.060257
			2	0.121060	2	0.090368
			3	0.092177	3	0.116979
			4	0.077259	4	0.143478
			5	0.067870	5	0.172199
			6	0.106810	6	0.451622
			BIAS CORR	0.571349		
			VAR CCEFF	0.023503		0.042572
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.93		85.58
7	6	5	1	0.536377	2	0.126632
			2	0.121332	3	0.117029
			3	0.133151	4	0.143636
			5	0.102113	5	0.172429
			6	0.107026	6	0.452289
			BIAS CORR	0.569953		
			VAR CCEFF	0.023575		0.042637
			EFFICIENCY	99.69		99.85
7	6	4	1	0.538455	2	0.183121
			2	0.166187	4	0.200729
			4	0.161877	5	0.172919
			6	0.133482	6	0.453820
			BIAS CORR	0.568238		
			VAR CCEFF	0.023671		0.042789
			EFFICIENCY	99.29		99.49
7	6	3	1	0.596212	3	0.284040

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			3	0.242238	5	0.238045
			6	0.161551	6	0.457433
			BIAS CORR	0.564459		
			VAR CCEFF	0.023983		0.043151
			EFFICIENCY	98.00		98.66
7	6	2	1	0.706812	4	0.403975
			5	0.293168	6	0.535182
			BIAS CORR	0.535109		
			VAR CCEFF	0.025118		0.044117
			EFFICIENCY	93.57		96.50
7	6	1	1	1.000000	6	0.811968
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.050157
			EFFICIENCY	76.66		84.88
7	5	5	1	0.544041	1	0.072174
			2	0.123025	2	0.108039
			3	0.093536	3	0.139559
			4	0.078185	4	0.170387
			5	0.161213	5	0.668275
			BIAS CORR	0.540598		
			VAR CCEFF	0.023913		0.051243
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.23		71.10
7	5	4	1	0.545671	2	0.151519
			2	0.123304	3	0.139659
			3	0.134983	4	0.170624
			5	0.196041	5	0.669428
			BIAS CORR	0.539124		
			VAR CCEFF	0.023987		0.051336
			EFFICIENCY	99.69		99.82
7	5	3	1	0.601050	2	0.219077
			3	0.201577	4	0.238911
			5	0.197374	5	0.672022
			BIAS CORR	0.540140		
			VAR CCEFF	0.024175		0.051552
			EFFICIENCY	98.92		99.40

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.706812	2	0.339574
			5	0.293188	5	0.754306
			BIAS CORR	0.535109		
			VAR CCEFF	0.025118		0.052068
			EFFICIENCY	95.20		98.41
7	5	1	1	1.000000	5	0.982687
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.055343
			EFFICIENCY	78.00		92.59
7	4	4	1	0.558062	1	0.089771
			2	0.125906	2	0.134048
			3	0.095391	3	0.172335
			4	0.220641	4	0.926619
			BIAS CORR	0.504224		
			VAR CCEFF	0.024537		0.064370
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.76		56.60
7	4	3	1	0.560238	2	0.188208
			2	0.172203	3	0.172530
			4	0.267509	4	0.928539
			BIAS CORR	0.503463		
			VAR CCEFF	0.024638		0.064514
7	4	2	1	0.667978	2	0.271918
			4	0.332022	4	1.016607
			BIAS CORR	0.503914		
			VAR CCEFF	0.025133		0.064845
			EFFICIENCY	97.63		99.27
7	4	1	1	1.000000	4	1.185087
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.066699
			EFFICIENCY	80.04		96.51
7	3	3	1	0.579747	1	0.118419
			2	0.130106	2	0.175927

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
7	3	2	3	0.290147	3	1.268782
			BIAS CORR	0.460793		
			VAR CCEFF	0.025509		0.086532
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.15		42.11
7	3	2	1	0.638447	2	0.247532
			3	0.361553	3	1.272038
			BIAS CORR	0.461302		
			VAR CCEFF	0.025718		0.086783
			EFFICIENCY	99.19		99.71
7	3	1	1	1.000000	3	1.461134
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.087789
			EFFICIENCY	83.21		98.57
7	2	2	1	0.616231	1	0.173312
			2	0.383769	2	1.801629
			BIAS CORR	0.407060		
			VAR CCEFF	0.027164		0.131790
			EFFICIENCY	100.00		100.00
7	2	1		85.50		27.65
			EFF(M/N)			
			1	1.000000	2	1.912665
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.132327
7	1	1	EFFICIENCY	88.60		99.59
			1	1.000000	1	2.985411
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.273240
8	8	8	EFFICIENCY	100.00		100.00
			EFF(M/N)	75.84		13.33
			1	0.514342	1	0.042364
			2	0.112943	2	0.063127
			3	0.085154	3	0.081164
			4	0.070980	4	0.098675
			5	0.062259	5	0.117017
			6	0.056164	6	0.137828

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
8	8	7	7	0.051424	7	0.164529
			8	0.046734	8	0.224775
			BIAS CORR	0.583455		
			VAR CCEFF	0.019968		0.031810
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
8	8	7	1	0.515358	2	0.088958
			2	0.113140	3	0.081156
			3	0.085258	4	0.098725
			4	0.104925	5	0.117056
			6	0.083041	6	0.137928
			7	0.051473	7	0.164666
			8	0.046805	8	0.224968
			BIAS CORR	0.582252		
8	8	6				0.031837
			VAR CCEFF	0.020008		99.91
			EFFICIENCY	99.80		
			1	0.516618	2	0.126965
			2	0.113352	4	0.139479
			3	0.121504	5	0.117235
			5	0.128895	6	0.138161
8	8	6	7	0.072761	7	0.164942
			8	0.046870	8	0.225371
			BIAS CORR	0.580541		
			VAR CCEFF	0.020058		0.031895
			EFFICIENCY	99.55		99.73
8	8	5	1	0.518669	3	0.195697
			2	0.153852	5	0.163914
			4	0.148268	6	0.138541
			6	0.118302	7	0.165614
			8	0.060908	8	0.226315
			BIAS CORR	0.577344		
			VAR CCEFF	0.020141		0.032032
			EFFICIENCY	99.14		99.31
8	8	4	1	0.570284	3	0.197142
			3	0.220545	5	0.247569
			6	0.147732	7	0.219472
			8	0.061439	8	0.228116

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.576298		
				0.020343		0.032308
				98.16		98.46
8	8	3	1	0.618786	4	0.362879
			4	0.245322	7	0.268638
			7	0.135892	8	0.233330
				BIAS CORR		
				0.557449		
				VAR CCEFF		0.033082
				0.020718		96.15
				EFFICIENCY		
				96.38		
8	8	2	1	0.681395	5	0.510058
			5	0.318605	8	0.331049
				BIAS CORR		
				0.505380		
				VAR CCEFF		0.034974
				0.021670		90.95
				EFFICIENCY		
				92.15		
8	8	1	1	1.000000	7	0.779669
				BIAS CORR		
				0.313329		
				VAR CCEFF		0.044258
				0.026825		71.87
				EFFICIENCY		
				74.44		
8	7	7	1	0.518827	1	0.048396
			2	0.113904	2	0.072073
			3	0.085857	3	0.092628
			4	0.071520	4	0.112443
			5	0.062668	5	0.133128
			6	0.056372	6	0.156136
			7	0.090853	7	0.400843
				BIAS CORR		
				0.562155		
				VAR COEFF		0.036391
				0.020142		100.00
				EFFICIENCY		87.41
				100.00		
				EFF(M/N)		
				99.13		
8	7	6	1	0.519857	2	0.101594
			2	0.114104	3	0.092631
			3	0.085964	4	0.112513
			4	0.105688	5	0.133234
			6	0.083426	6	0.156279
			7	0.090961	7	0.401230
				BIAS CORR		
				0.560909		



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.020183 99.80 0.036427 99.90
8	7	5	1	0.521129	2	0.145011
			2	0.114318	4	0.159070
			3	0.122485	5	0.133427
			5	0.129682	6	0.156572
			7	0.112385	7	0.402030
				BIAS CORR		0.559263
				VAR CCEFF		0.020234
				EFFICIENCY		99.55 0.036503 99.69
8	7	4	1	0.571099	2	0.223510
			3	0.185409	5	0.196748
			5	0.130402	6	0.157207
			7	0.113091	7	0.403931
				BIAS CORR		0.560657
				VAR CCEFF		0.020368
				EFFICIENCY		98.89 0.036681 99.21
8	7	3	1	0.618786	2	0.225401
			4	0.245322	5	0.281912
			7	0.135892	7	0.467219
				BIAS CORR		0.557449
				VAR CCEFF		0.020718
				EFFICIENCY		97.22 0.037017 98.26
8	7	2	1	0.681395	4	0.415333
			5	0.318605	7	0.529833
				BIAS CORR		0.505380
				VAR CCEFF		0.021670
				EFFICIENCY		92.95 0.038045 95.65
8	7	1	1	1.000000	7	0.779669
				BIAS CORR		0.313329
				VAR CCEFF		0.026825
				EFFICIENCY		75.09 0.044258 82.23
8	6	6	1	0.525852	1	0.056394
			2	0.115393	2	0.083954
			3	0.086896	3	0.107637

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
8	6	5	4	0.072314	4	0.130551
			5	0.063171	5	0.153865
			6	0.136374	6	0.585779
			BIAS CORR	0.536566		
			VAR CCEFF	0.020416		0.042547
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.80		74.76
			1	0.526899	2	0.118374
			2	0.115597	3	0.107657
			3	0.087005	4	0.130653
8	6	4	4	0.106756	5	0.154013
			6	0.163742	6	0.586430
			BIAS CORR	0.535282		
			VAR CCEFF	0.020458		0.042596
			EFFICIENCY	99.80		99.89
			1	0.528530	2	0.168889
			2	0.156661	4	0.184821
			4	0.150625	5	0.154284
			6	0.164184	6	0.587766
			BIAS CORR	0.535089		
8	6	3	VAR CCEFF	0.020525		0.042698
			EFFICIENCY	99.47		99.65
			1	0.581184	2	0.260212
			3	0.224341	5	0.216386
			6	0.194474	6	0.590883
			BIAS CORR	0.533657		
			VAR CCEFF	0.020734		0.042940
			EFFICIENCY	98.47		99.08
			1	0.681395	4	0.364954
			5	0.318605	6	0.666127
8	6	2	BIAS CORR	0.505380		
			VAR CCEFF	0.021670		0.043539
			EFFICIENCY	94.22		97.72
			1	1.000000	6	0.927198
			BIAS CORR	0.313329		
			VAR CCEFF	0.026825		0.046987

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				76.11		90.55
				EFFICIENCY		
8	5	5	1	0.536036	1	0.067517
			2	0.117481	2	0.100251
			3	0.088367	3	0.128456
			4	0.073298	4	0.155014
			5	0.184818	5	0.796061
				BIAS CORR		
				0.506823		
				VAR CCEFF		0.051225
				0.020815		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		62.10
				95.93		
8	5	4	1	0.537237	2	0.141490
			2	0.117681	3	0.128507
			3	0.125702	4	0.155169
			5	0.219380	5	0.797092
				BIAS CORR		
				0.506009		
				VAR CCEFF		0.051296
				0.020863		
				EFFICIENCY		99.86
				99.77		
8	5	3	1	0.588790	2	0.201878
			3	0.190509	4	0.219923
			5	0.220701	5	0.799167
				BIAS CORR		
				0.507099		
				VAR CCEFF		0.051441
				0.021005		
				EFFICIENCY		99.58
				99.09		
8	5	2	1	0.681395	3	0.310797
			5	0.318605	5	0.877110
				BIAS CORR		
				0.505380		
				VAR CCEFF		0.051785
				0.021670		
				EFFICIENCY		98.92
				96.05		
8	5	1	1	1.000000	5	1.091562
				BIAS CORR		
				0.313329		
				VAR CCEFF		0.053917
				0.026825		
				EFFICIENCY		95.01
				77.59		
8	4	4	1	0.550772	1	0.083896
			2	0.120451	2	0.124380
			3	0.090293	3	0.158582

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
8	4	3	4	0.238484	4	1.053724
			BIAS CORR	0.472232		
			VAR CCEFF	0.021394		0.064358
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.33		49.43
			1	0.552533	2	0.175678
			2	0.163085	3	0.158694
			4	0.284383	4	1.055364
			BIAS CORR	0.471856		
			VAR CCEFF	0.021466		0.064466
8	4	2	1	0.651527	2	0.250407
			4	0.348473	4	1.138274
			BIAS CORR	0.472996		
			VAR CCEFF	0.021835		0.064689
			EFFICIENCY	97.98		99.49
			1	1.000000	4	1.296140
			BIAS CORR	0.313329		
			VAR CCEFF	0.026825		0.065987
			EFFICIENCY	79.75		97.53
			1	0.573024	1	0.110602
8	3	3	2	0.124595	2	0.163192
			3	0.302280	3	1.401569
			BIAS CORR	0.431275		
			VAR CCEFF	0.022273		0.086523
			EFFICIENCY	100.00		100.00
			EFF(M/N)	89.65		35.76
			1	0.627899	2	0.250932
			3	0.372102	3	1.404267
			BIAS CORR	0.431954		
			VAR CCEFF	0.022433		0.086712
8	3	1	1	1.000000	3	1.581961
			BIAS CORR	0.313329		
			VAR CCEFF	0.026825		0.087440

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				83.03		98.95
			EFFICIENCY			
8	2	2	1	0.609930	1	0.161782
			2	0.390070	2	1.951710
			BIAS CORR	0.380838		
			VAR CCEFF	0.023747		0.131785
			EFFICIENCY	100.00		100.00
			EFF(M/N)	84.09		24.14
8	2	1	1	1.000000	2	2.055927
			BIAS CORR	0.313329		
			VAR CCEFF	0.026825		0.132188
			EFFICIENCY	88.52		99.69
8	1	1	1	1.000000	1	3.191538
			BIAS CORR	0.313329		
			VAR CCEFF	0.026825		0.273240
			EFFICIENCY	100.00		100.00
			EFF(M/N)	74.44		11.64
9	9	9	1	0.502196	1	0.035553
			2	0.107539	2	0.052686
			3	0.080353	3	0.067335
			4	0.066536	4	0.081248
			5	0.058115	5	0.095361
			6	0.052296	6	0.110540
			7	0.047958	7	0.128087
			8	0.044370	8	0.150928
			9	0.040636	9	0.203423
			BIAS CORR	0.572310		
			VAR CCEFF	0.017460		0.028225
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
9	9	8	1	0.502918	2	0.074596
			2	0.107664	3	0.067318
			3	0.080470	4	0.081272
			4	0.066569	5	0.095359
			5	0.087173	6	0.110601
			7	0.070134	7	0.128158
			8	0.044393	8	0.151017

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
9	9	7	9	0.040676	5	0.203544
			BIAS CORR	0.571245		
			VAR COEFF	0.017486		0.028242
			EFFICIENCY	99.94		99.94
			1	0.503776	2	0.105502
			2	0.107869	4	0.115808
			3	0.080510	5	0.095447
			4	0.097130	6	0.110731
			6	0.107721	7	0.128274
			8	0.062284	8	0.151192
9	9	6	9	0.040709	5	0.203779
			BIAS CORR	0.569793		
			VAR COEFF	0.017516		0.028276
			EFFICIENCY	99.68		99.87
			1	0.505069	2	0.105679
			2	0.145120	4	0.165966
			4	0.138607	6	0.154602
			6	0.107955	7	0.128511
			8	0.052435	8	0.151542
			9	0.040814	9	0.204262
9	9	5	BIAS CORR	0.569936		
			VAR COEFF	0.017564		0.028345
			EFFICIENCY	99.41		99.58
			1	0.507785	2	0.162637
			2	0.145809	4	0.197149
			4	0.169887	6	0.176169
			7	0.123701	8	0.152091
			9	0.052920	9	0.205123
			BIAS CORR	0.564791		
			VAR COEFF	0.017654		0.028468
9	9	4	EFFICIENCY	98.88		99.15
			1	0.556714	4	0.227467
			3	0.175589	6	0.234440
			5	0.152728	8	0.201946
			8	0.114970	9	0.207115
			BIAS CORR	0.549114		
			VAR COEFF	0.017837		0.028751

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		97.89
						98.14
9	9	3	1	0.602244	4	0.293881
			4	0.263462	7	0.330297
			8	0.134294	9	0.253267
			BIAS CORR	0.544544		
			VAR CCEFF	0.018172		0.029423
			EFFICIENCY	96.08		95.93
9	9	2	1	0.663545	6	0.516525
			5	0.336455	9	0.301562
			BIAS CORR	0.479123		
			VAR CCEFF	0.019079		0.031237
			EFFICIENCY	91.52		90.36
9	9	1	1	1.000000	8	0.754012
			BIAS CORR	0.295409		
			VAR CCEFF	0.023845		0.039832
			EFFICIENCY	73.23		70.86
9	8	8	1	0.505834	1	0.039982
			2	0.108307	2	0.059246
			3	0.080908	3	0.075644
			4	0.066990	4	0.091304
			5	0.058464	5	0.106946
			6	0.052568	6	0.123841
			7	0.048077	7	0.142914
			8	0.070853	8	0.161040
			BIAS CORR	0.253486		
			VAR CCEFF	0.017587		0.031776
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.28		88.83
9	8	7	1	0.506364	2	0.083891
			2	0.108414	3	0.075631
			3	0.081026	4	0.091337
			4	0.067023	5	0.106996
			5	0.081673	6	0.123919
			7	0.070368	7	0.143004
			8	0.070912	8	0.161282
			BIAS CORR	0.452895		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		
				0.017613 99.85		0.031797 99.93
9	8	6	1	0.507427	2	0.118631
			2	0.108640	4	0.130156
			3	0.091066	5	0.107065
			4	0.097768	6	0.124082
			6	0.108225	7	0.143154
			8	0.096873	8	0.361750
				BIAS CORR		
				0.551425		
				VAR CCEFF		0.031839
				EFFICIENCY		99.80
9	8	5	1	0.508739	2	0.118864
			2	0.146151	4	0.186475
			4	0.139533	6	0.173343
			6	0.108461	7	0.143459
			8	0.097115	8	0.362704
				BIAS CORR		
				0.551520		
				VAR CCEFF		0.031427
				EFFICIENCY		99.53
9	8	4	1	0.556714	2	0.182769
			3	0.175589	5	0.221340
			5	0.152728	7	0.196979
			8	0.114970	8	0.364321
				BIAS CORR		
				0.549114		
				VAR CCEFF		0.032082
				EFFICIENCY		99.05
9	8	3	1	0.602244	3	0.237594
			4	0.263462	6	0.307033
			8	0.134794	8	0.422325
				BIAS CORR		
				0.544544		
				VAR CCEFF		0.032444
				EFFICIENCY		97.92
9	8	2	1	0.663545	3	0.432005
			5	0.336455	8	0.474925
				BIAS CORR		
				0.479123		
				VAR CCEFF		0.033396



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				92.18		95.15
			EFFICIENCY			
9	8	1	1	1.000000	8	0.754012
			BIAS CORR	0.295409		
			VAR CCEFF	0.023845		0.039832
			EFFICIENCY	73.76		79.79
9	7	7	1	0.511387	1	0.045677
			2	0.109453	2	0.067571
			3	0.081769	3	0.086430
			4	0.067593	4	0.103815
			5	0.058987	5	0.121790
			6	0.052865	6	0.140295
			7	0.117946	7	0.523031
			BIAS CORR	0.532182		
			VAR CCEFF	0.017781		0.036372
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.20		77.60
9	7	6	1	0.512125	2	0.095736
			2	0.109581	3	0.086422
			3	0.081888	4	0.103862
			4	0.067627	5	0.121859
			5	0.088363	6	0.140197
			7	0.140416	7	0.523423
			BIAS CORR	0.531070		
			VAR CCEFF	0.017807		0.036400
			EFFICIENCY	99.85		99.92
9	7	5	1	0.513027	2	0.135457
			2	0.109723	4	0.148247
			3	0.115425	5	0.121960
			5	0.121205	6	0.140608
			7	0.140620	7	0.524159
			BIAS CORR	0.530674		
			VAR CCEFF	0.017839		0.036454
			EFFICIENCY	99.67		99.77
9	7	4	1	0.515723	2	0.135774
			2	0.148027	4	0.212479
			4	0.172179	6	0.190792

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
9	7	3	7	0.164071	7	0.525651
			BIAS CORR	0.528534		
			VAR CCEFF	0.017936		0.036568
			EFFICIENCY	99.14		99.46
			1	0.567060	3	0.208973
			3	0.242403	5	0.251886
			7	0.190537	7	0.588290
			BIAS CORR	0.525706		
			VAR CCEFF	0.018175		0.036767
			EFFICIENCY	97.83		98.92
9	7	2	1	0.663545	4	0.370899
			5	0.336455	7	0.650167
			BIAS CORR	0.479123		
			VAR CCEFF	0.019079		0.037383
			EFFICIENCY	93.20		97.29
9	7	1	1	1.000000	7	0.885076
			BIAS CORR	0.295409		
			VAR CCEFF	0.023845		0.041061
			EFFICIENCY	74.57		88.58
9	6	6	1	0.519164	1	0.053175
			2	0.111083	2	0.078794
			3	0.082838	3	0.100144
			4	0.068508	4	0.120793
			5	0.059544	5	0.140654
			6	0.158863	6	0.701322
			BIAS CORR	0.507157		
			VAR CCEFF	0.018053		0.042533
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.72		66.36
9	6	5	1	0.519422	2	0.111596
			2	0.111237	3	0.100147
			3	0.082903	4	0.120864
			4	0.099725	5	0.140751
			6	0.186213	6	0.701921
			BIAS CORR	0.506416		
			VAR CCEFF	0.018080		0.042571

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				99.85		99.91
				EFFICIENCY		
9	6	4	1	0.521295	2	0.157662
			2	0.149607	4	0.172336
			4	0.142444	5	0.140898
			6	0.186654	6	0.703090
			BIAS CORR	0.506398		
			VAR CCEFF	0.018130		0.042645
			EFFICIENCY	99.57		99.74
9	6	3	1	0.570536	2	0.158101
			3	0.211845	4	0.246654
			6	0.217619	6	0.769878
			BIAS CORR	0.505980		
			VAR CCEFF	0.018284		0.042796
			EFFICIENCY	98.74		99.39
9	6	2	1	0.663545	3	0.313362
			2	0.336455	6	0.835151
			BIAS CORR	0.479123		
			VAR CCEFF	0.019079		0.043231
			EFFICIENCY	94.62		98.39
9	6	1	1	1.000000	6	1.024735
			BIAS CORR	0.295409		
			VAR CCEFF	0.023845		0.045498
			EFFICIENCY	75.71		93.48
9	5	5	1	0.529956	1	0.063669
			2	0.113219	2	0.093897
			3	0.084409	3	0.115737
			4	0.069522	4	0.143262
			5	0.202894	5	0.909278
			BIAS CORR	0.478566		
			VAR CCEFF	0.018431		0.051215
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.74		55.11
9	5	4	1	0.530910	2	0.133195
			2	0.113371	3	0.119761
			3	0.118891	4	0.143370

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
9	5	3	5	0.236828	5	0.910193
			BIAS CORR	0.478079		
			VAR CCEFF	0.018465		0.051270
			EFFICIENCY	99.82		99.89
			1	0.579664	2	0.188344
			3	0.182209	4	0.204988
			5	0.238126	5	0.911389
			BIAS CORR	0.479182		
			VAR CCEFF	0.018578		0.051375
			EFFICIENCY	99.21		99.69
9	5	2	1	0.663545	2	0.288983
			5	0.336455	5	0.985676
			BIAS CORR	0.479123		
			VAR CCEFF	0.019079		0.051622
			EFFICIENCY	96.60		99.21
			1	1.000000	5	1.188441
			BIAS CORR	0.295409		
			VAR CCEFF	0.023845		0.053129
			EFFICIENCY	77.29		96.40
			1	0.545181	1	0.079033
9	4	4	2	0.116752	2	0.116566
			3	0.086361	3	0.147705
			4	0.252206	4	1.168570
			BIAS CORR	0.445605		
			VAR CCEFF	0.018966		0.064350
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.06		43.86
			1	0.546675	2	0.165388
			2	0.156238	3	0.147770
			4	0.297087	4	1.169985
9	4	3	BIAS CORR	0.445436		
			VAR CCEFF	0.019021		0.064434
			EFFICIENCY	99.71		99.87
			1	0.639426	2	0.233538
			4	0.360574	4	1.248409

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
9	4	1		BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.446915		0.064594
				0.019311		99.62
				98.22		
9	4	1	1	1.000000	4	1.397453
				BIAS CORR		
				0.295409		
				VAR CCEFF		
				0.023845		0.065556
				EFFICIENCY		98.16
9	3	3	1	0.567838	1	0.104156
			2	0.120516	2	0.152887
			3	0.311646	3	1.523401
				BIAS CORR		
				0.406777		
				VAR CCEFF		0.086518
				EFFICIENCY		100.00
				EFF(M/N)		32.62
9	3	2	1	0.619897	2	0.217311
			3	0.380103	2	1.525683
				BIAS CORR		
				0.407534		
				VAR CCEFF		0.086664
				EFFICIENCY		99.83
9	3	1	1	1.000000	3	1.693778
				BIAS CORR		
				0.295409		
				VAR CCEFF		0.087216
				EFFICIENCY		99.20
9	2	2	1	0.605051	1	0.152286
			2	0.394949	2	2.091186
				BIAS CORR		
				0.359105		
				VAR CCEFF		0.131781
				EFFICIENCY		100.00
				EFF(M/N)		21.42
9	2	1	1	1.000000	2	2.185693
				BIAS CORR		
				0.295409		
				VAR CCEFF		0.132095
				EFFICIENCY		99.76
9	1	1	1	1.000000	1	3.385138

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.295409	
				VAR CCEFF	0.023845	0.273240
				EFFICIENCY	100.00	100.00
				EFF(M/N)	73.23	10.33
10	10	10	1	0.491941	1	0.030395
			2	0.103163	2	0.044847
			3	0.076487	3	0.057051
			4	0.062952	4	0.068464
			5	0.054773	5	0.079780
			6	0.049119	6	0.091570
			7	0.045026	7	0.104475
			8	0.041735	8	0.119600
			9	0.038932	9	0.139507
			10	0.035872	10	0.185958
			BIAS CORR	0.562699		
			VAR CCEFF	0.015487	0.025366	
			EFFICIENCY	100.00	100.00	
			EFF(M/N)	100.00	100.00	
10	10	9	1	0.492458	2	0.063737
			2	0.103728	3	0.057031
			3	0.076610	4	0.068476
			4	0.062933	5	0.079794
			5	0.081031	6	0.091612
			7	0.067139	7	0.104510
			8	0.041731	8	0.119653
			9	0.038970	9	0.139566
			10	0.035901	10	0.186039
						BIAS CORR
			VAR CCEFF	0.015503	0.025377	
			EFFICIENCY	99.90	99.96	
10	10	8	1	0.493022	2	0.089542
			2	0.103423	4	0.098201
			3	0.076517	5	0.079788
			4	0.091046	6	0.091731
			6	0.100447	7	0.104520
			8	0.060646	8	0.119776
			9	0.038959	9	0.139663
			10	0.035939	10	0.186186

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
10	10	7		BIAS CORR		
				VAR CCEFF		0.025358
				EFFICIENCY		99.88
			1	0.493845	2	0.089625
			2	0.103447	4	0.138959
			3	0.107373	6	0.129654
			5	0.112406	7	0.104566
			7	0.092572	8	0.115996
			9	0.054395	9	0.139834
			10	0.035961	10	0.186463
10	10	6		BIAS CORR		
				VAR CCEFF		0.025436
				EFFICIENCY		99.73
			1	0.495225	2	0.137586
			2	0.138606	5	0.163057
			4	0.131349	7	0.146349
			6	0.100786	8	0.120051
			8	0.087738	9	0.140262
			10	0.046296	10	0.186930
				BIAS CORR		
10	10	5		VAR CCEFF		0.025503
				EFFICIENCY		99.47
			1	0.539757	2	0.175820
			3	0.166312	6	0.224026
			5	0.140367	8	0.164825
			8	0.106996	9	0.140900
			10	0.046568	10	0.187938
				BIAS CORR		
				VAR CCEFF		0.025643
				EFFICIENCY		98.92
10	10	4		BIAS CORR		
				VAR CCEFF		0.025891
				EFFICIENCY		97.84
			1	0.544266	4	0.240575
			3	0.196411	7	0.258953
			6	0.158786	9	0.186935
			9	0.100537	10	0.189652
				BIAS CORR		
				VAR CCEFF		0.025891
				EFFICIENCY		97.84

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.588213	5	0.310870
			4	0.247253	8	0.309017
			8	0.164534	10	0.232151
			BIAS CORR	0.523815		
			VAR CCEFF	0.016147		0.026511
			EFFICIENCY	95.91		95.68
10	10	2	1	0.674540	7	0.520252
			6	0.325460	10	0.278026
			BIAS CORR	0.481860		
			VAR CCEFF	0.017002		0.028315
			EFFICIENCY	91.09		89.59
10	10	1	1	1.000000	5	0.732989
			BIAS CORR	0.280250		
			VAR CCEFF	0.021460		0.036382
			EFFICIENCY	72.17		69.72
10	9	9	1	0.494967	1	0.033760
			2	0.103788	2	0.049792
			3	0.076954	3	0.063354
			4	0.063302	4	0.075442
			5	0.055098	5	0.084618
			6	0.049350	6	0.101382
			7	0.045218	7	0.115649
			8	0.041801	8	0.131857
			9	0.069524	9	0.328921
			BIAS CORR	0.546673		
			VAR CCEFF	0.015582		0.028198
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.39		89.96
10	9	8	1	0.495488	2	0.070780
			2	0.103853	3	0.063375
			3	0.077077	4	0.075909
			4	0.063283	5	0.088639
			5	0.081480	6	0.101434
			7	0.067435	7	0.115694
			8	0.041797	8	0.131921
			9	0.069587	9	0.329078



TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.546053		
			VAR CCEFF	0.015599	0.028212	
			EFFICIENCY	99.90	99.95	
10	9	7	1	0.496059	2	0.099464
			2	0.104050	4	0.108949
			3	0.076985	5	0.088640
			4	0.091564	6	0.101574
			6	0.100941	7	0.115715
			8	0.060792	8	0.132069
			9	0.069609	9	0.329354
			BIAS CORR	0.545317		
			VAR CCEFF	0.015618	0.028237	
			EFFICIENCY	99.77	99.86	
10	9	6	1	0.496886	2	0.099572
			2	0.104075	4	0.154254
			3	0.108012	6	0.143728
			5	0.113030	7	0.115785
			7	0.042908	8	0.132333
			9	0.065088	9	0.329856
			BIAS CORR	0.544743		
			VAR CCEFF	0.015643	0.028284	
			EFFICIENCY	99.61	99.70	
10	9	5	1	0.498949	3	0.152946
			2	0.134582	5	0.180969
			4	0.154672	7	0.162103
			7	0.116396	8	0.132428
			9	0.085401	9	0.330857
			BIAS CORR	0.543180		
			VAR CCEFF	0.015711	0.028366	
			EFFICIENCY	99.18	99.41	
10	9	4	1	0.544266	3	0.195430
			3	0.196411	6	0.248522
			6	0.158786	8	0.182124
			9	0.100537	9	0.332707
			BIAS CORR	0.541767		
			VAR CCEFF	0.015828	0.028539	
			EFFICIENCY	98.45	98.61	

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
10	4	1	1	0.588213	6	0.261522
			2	0.267363	7	0.287031
			3	0.166536	8	0.385510
			BIAS CORR	0.523015		
			VAR CORR	0.17157		0.070843
			EFFICIENCY	96.50		97.16
10	4	2	1	0.474560	7	0.441545
			2	0.325885	8	0.441545
			BIAS CORR	0.481840		
			VAR CORR	0.017007		0.074847
			EFFICIENCY	91.45		95.58
10	4	3	1	0.010000	8	0.137787
			BIAS CORR	0.780750		
			VAR CORR	0.071669		0.011387
			EFFICIENCY	17.61		11.51
10	4	4	1	0.515501	1	0.031358
			2	0.178731	2	0.046777
			3	0.075172	3	0.070525
			4	0.031977	4	0.086281
			5	0.0055677	5	0.098896
			6	0.002181	6	0.111471
			7	0.000871	7	0.124356
			8	0.000377	8	0.137315
			BIAS CORR	0.571187		
			VAR CORR	0.015175		0.011740
			EFFICIENCY	100.00		100.00
			EFFICIENCY	18.54		15.07
10	4	5	1	0.500000	1	0.075823
			2	0.178553	2	0.070517
			3	0.070591	3	0.085114
			4	0.031963	4	0.098978
			5	0.0057021	5	0.111516
			6	0.0021807	6	0.125055
			7	0.0008717	7	0.137315
			8	0.0003777	8	0.150000
			BIAS CORR	0.571187		
			VAR CORR	0.015175		0.011740

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

L	M	L	I	LOCATION		SCALE	
				EFFICIENCY		99.99	
10	B	6	1	0.900986	2	0.111789	
			2	0.109060	4	0.127709	
			3	0.077604	5	0.098739	
			4	0.077384	6	0.114109	
			5	0.101589	7	0.129600	
			6	0.127460	8	0.146227	
				BIAS CORR			
				VAN CIEFF		0.031809	
				EFFICIENCY		99.99	
10	C	5	1	0.901719	2	0.111729	
			2	0.140386	4	0.133309	
			3	0.112707	5	0.141184	
			4	0.101797	6	0.129191	
			5	0.123137	7	0.145698	
				BIAS CORR			
				VAN CIEFF		0.031867	
				EFFICIENCY		99.99	
10	D	4	1	0.906967	2	0.111807	
			2	0.168311	4	0.202793	
			3	0.141969	5	0.181101	
			4	0.142799	6	0.178168	
				BIAS CORR			
				VAN CIEFF		0.031777	
				EFFICIENCY		99.99	
10	E	3	1	0.908213	2	0.214789	
			2	0.287293	4	0.219786	
			3	0.168915	5	0.226684	
				BIAS CORR			
				VAN CIEFF		0.031700	
				EFFICIENCY		99.99	
10	F	2	1	0.678976	2	0.304083	
			2	0.328880	4	0.591487	
				BIAS CORR			
				VAN CIEFF		0.031703	
				EFFICIENCY		99.99	

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 2.00

n	m	L	i	LOCATION	i	SCALE
10	8	1	1	1.000000	1	0.051729
			BIAS CORR	0.280230		
			VAN CLEFF	0.021460		0.036634
			EFFICIENCY	73.28		86.47
10	7	2	1	0.500000	1	0.043349
			2	0.115939	2	0.063697
			3	0.018617	3	0.001673
			4	0.000000	4	0.000000
			5	0.000000	5	0.113326
			6	0.000000	6	0.129710
			7	0.115939	7	0.063697
			BIAS CORR	0.000000		
			VAN CLEFF	0.015971		0.036634
			EFFICIENCY	100.00		100.00
			EFFICIENCY	91.78		67.34
10	6	3	1	0.000000	1	0.070001
			2	0.100000	2	0.001610
			3	0.000000	3	0.000000
			4	0.000000	4	0.113326
			5	0.000000	5	0.129710
			6	0.100000	6	0.001610
			7	0.000000	7	0.070001
			BIAS CORR	0.000000		
			VAN CLEFF	0.015971		0.036634
			EFFICIENCY	99.00		99.00
10	5	4	1	0.000000	1	0.127051
			2	0.100000	2	0.100000
			3	0.000000	3	0.113326
			4	0.100000	4	0.127051
			5	0.000000	5	0.100000
			6	0.000000	6	0.113326
			7	0.100000	7	0.100000
			8	0.000000	8	0.127051
			BIAS CORR	0.000000		
			VAN CLEFF	0.015971		0.036634
			EFFICIENCY	99.00		99.00
10	4	5	1	0.000000	1	0.127051
			2	0.100000	2	0.100000
			3	0.000000	3	0.113326
			4	0.100000	4	0.127051
			5	0.000000	5	0.100000

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR		
				VAN CIEFF		0.036901
				EFFICIENCY		99.61
			1	0.904136	2	0.146200
			3	0.774096	5	0.731033
			7	0.713737	7	0.641933
		4		BIAS CORR		
				VAN CIEFF		0.036633
				EFFICIENCY		99.76
			1	0.674540	4	0.340810
10	7	2		0.379620	7	0.791679
				BIAS CORR		
				VAN CIEFF		0.031030
				EFFICIENCY		98.17
			1	0.674540	7	0.791679
			4	0.379620		
		1		BIAS CORR		
				VAN CIEFF		0.037030
				EFFICIENCY		91.97
			1	1.000000	7	0.974062
10	6	6		0.813947	7	0.974062
				0.107707	7	0.074410
				0.074400	7	0.041740
				0.069933	4	0.113770
				0.052225	5	0.131353
				0.176979	6	0.804157
				BIAS CORR		
				VAN CIEFF		0.047979
				EFFICIENCY		100.00
			EFFICIENCY		99.70	
10	6	6		0.813947	7	0.109971
				0.107707	7	0.041740
				0.074400	4	0.113770
				0.069933	5	0.131353
				0.703941	6	0.804157
				BIAS CORR		
				VAN CIEFF		0.047979
				EFFICIENCY		99.91
				EFFICIENCY		99.91

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	0.919727	2	0.148483
			2	0.144194	4	0.162243
			4	0.136137	6	0.130457
			6	0.203280	8	0.803689
			BIAS CORR	0.491594		
			VAN CLEFT	0.016241		0.042610
			EFFICIENCY	99.64		99.80
10	6	3	1	0.562504	2	0.149705
			3	0.2707481	4	0.229110
			6	0.235019	6	0.865116
			BIAS CORR	0.491677		
			VAN CLEFT	0.016161		0.042712
			EFFICIENCY	99.71		99.74
10	6	2	1	0.674560	2	0.290558
			4	0.225460	4	0.431491
			BIAS CORR	0.491080		
			VAN CLEFT	0.017007		0.051079
			EFFICIENCY	99.10		98.65
10	6	1	1	1.000000	6	1.111564
			BIAS CORR	0.780780		
			VAN CLEFT	0.071860		0.044270
			EFFICIENCY	75.81		99.72
10	6	0	1	0.919727	1	0.000000
			2	0.109031	2	0.086563
			3	0.081280	3	0.112707
			4	0.064904	4	0.137010
			5	0.217149	5	1.011010
			BIAS CORR	0.454508		
			VAN CLEFT	0.016510		0.041708
			EFFICIENCY	100.00		100.00
			EFFICIENCY	91.65		99.94
10	5	4	1	0.539974	2	0.170194
			2	0.107944	3	0.112714
			3	0.113668	4	0.133111
			6	0.250514	5	1.017478
			BIAS CORR			
			VAN CLEFT			

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE	
10	5	3		BIAS CORR			
				VAN CLEFF		0.091252	
				EFFICIENCY		99.91	
			1	0.572504	2	0.177286	
			3	0.175721	4	0.192800	
			5	0.291699	5	1.014041	
		2		BIAS CORR			
				VAN CLEFF		0.091331	
				EFFICIENCY		99.76	
	4	2	1	0.630747	2	0.271553	
			3	0.349791	3	1.004008	
				BIAS CORR			
				VAN CLEFF		0.091917	
				EFFICIENCY		99.40	
		1	1.000000	1	1.276071		
10	10	3			BIAS CORR		
					VAN CLEFF		0.092643
					EFFICIENCY		97.77
		2	2	1	0.949777	1	0.074718
				2	0.117971	2	0.110091
				3	0.081236	3	0.138402
				4	0.263037	4	1.274926
			1		BIAS CORR		
					VAN CLEFF		0.064344
					EFFICIENCY		100.00
		EFFICIENCY		99.42			
10	4	2	1	0.947041	2	0.108746	
			2	0.150895	3	0.138937	
			4	0.307038	4	1.273777	
		1		BIAS CORR			
				VAN CLEFF		0.064512	
				EFFICIENCY		99.89	
10	4	2	1	0.630131	2	0.215812	
			4	0.369869	4	1.357704	
				BIAS CORR			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
10	4	1		VAR COEFF		0.064572
				EFFICIENCY		99.71
			1	1.000000	4	1.491343
				BIAS CORR		0.280290
10	3	2		VAR COEFF		0.065275
				EFFICIENCY		99.51
			1	0.563714	1	0.098722
			2	0.117189	2	0.144321
10	2	3	3	0.119096	3	1.626559
				BIAS CORR		0.106021
				VAR COEFF		0.017768
				EFFICIENCY		100.00
10	1	4		EFFICIENCY		97.14
			1	0.413619	2	0.205962
			2	0.196385	1	1.638520
				BIAS CORR		0.106019
10	1	1		VAR COEFF		0.086611
				EFFICIENCY		99.86
			1	1.000000	1	1.798199
				BIAS CORR		0.280290
10	2	2		VAR COEFF		0.071466
				EFFICIENCY		97.19
			1	0.601166	1	0.146289
			2	0.198830	2	2.222017
10	2	1		BIAS CORR		0.150711
				VAR COEFF		0.010776
				EFFICIENCY		100.00
				EFFICIENCY		91.62
10	2	1	1	1.000000	2	2.315651
				BIAS CORR		0.280290
				VAR COEFF		0.071466
				EFFICIENCY		99.81
10	1	1	1	1.000000	1	1.968249
				BIAS CORR		0.280290





TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.646614	1	0.302893
			2	0.353386	2	0.722551
		1		BIAS CORR		
				0.824266		
				VAR COEFF		0.081852
				EFFICIENCY		100.00
				EFF(M/N)		100.00
2	2	1	1	1.000000	2	0.907353
				BIAS CORR		
				0.672420		
				VAR COEFF		0.093106
2	1	1		84.36		93.25
				EFFICIENCY		
			1	1.000000	1	1.407129
				BIAS CORR		
2	1	1		0.672420		
				VAR COEFF		0.163109
				EFFICIENCY		100.00
				EFF(M/N)		47.45
3	3	3	1	0.527766	1	0.199870
			2	0.272234	2	0.290804
			3	0.214933	3	0.535454
		2		BIAS CORR		
				0.746700		
				VAR COEFF		0.097628
				EFFICIENCY		100.00
3	3	2		100.00		100.00
				EFF(M/N)		
			1	0.667617	2	0.380803
		1		0.332383		
				BIAS CORR		0.948614
				0.785940		
				VAR COEFF		0.097639
3	3	1		95.61		98.25
				EFFICIENCY		
			1	1.000000	1	0.877180
				BIAS CORR		
3	2	2		0.971745		
				VAR COEFF		0.069402
				EFFICIENCY		86.58
				74.70		
3	2	2	1	0.971745	1	0.225777
			2	0.428255	2	0.493424
				BIAS CORR		
				0.701088		
3	2	2		VAR COEFF		0.086610
				0.949699		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				91.08		65.34
				EFFICIENCY		
				EFF(M/N)		
3	2	1	1	1.000000	2	1.144472
				BIAS CORR		
				0.571747		
				VAR COEFF		0.088870
				0.059856		97.51
				EFFICIENCY		
				82.93		
3	1	1	1	1.000000	1	1.749024
				BIAS CORR		
				0.571747		
				VAR COEFF		0.183109
				0.059856		100.00
				EFFICIENCY		100.00
				EFF(M/N)		30.93
4	4	4	1	0.464469	1	0.097877
			2	0.167592	2	0.173788
			3	0.173033	3	0.259529
			4	0.174906	4	0.434697
				BIAS CORR		
				0.776078		
				VAR COEFF		0.041433
				0.033692		100.00
				EFFICIENCY		100.00
				EFF(M/N)		100.00
4	4	3	1	0.955438	2	0.233000
			3	0.226311	3	0.248829
			4	0.178290	4	0.437524
				BIAS CORR		
				0.776078		
				VAR COEFF		0.042729
				0.034469		99.31
				EFFICIENCY		
				97.75		
4	4	2	1	0.584962	3	0.419376
			3	0.419098	4	0.452486
				BIAS CORR		
				0.708714		
				VAR COEFF		0.043838
				0.016385		99.05
				EFFICIENCY		
				92.60		
4	4	1	1	1.000000	4	0.174034
				BIAS CORR		
				0.504499		
				VAR COEFF		0.051480
				0.047551		80.03
				EFFICIENCY		
				70.86		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.489267	1	0.129868
			2	0.196102	2	0.228472
			3	0.314631	3	0.768790
		BIAS CORR VAR COEFF EFFICIENCY EFF (M/N)		0.709290		
				0.035535		0.056469
				100.00		100.00
				94.81		74.26
4	3	2	1	0.504242	2	0.307685
			3	0.415058	3	0.774978
				0.708719		
		BIAS CORR VAR COEFF EFFICIENCY		0.036305		0.052986
				97.67		99.09
4	3	1	1	1.000000	3	1.010776
				0.509599		
				0.047551		0.055931
		BIAS CORR VAR COEFF EFFICIENCY		74.73		94.38
4	2	2	1	0.536741	1	0.190812
			2	0.463259	2	1.140677
				0.724761		
		BIAS CORR VAR COEFF EFFICIENCY EFF (M/N)		0.039161		0.080595
				100.00		100.00
				86.03		40.42
4	2	1	1	1.000000	2	1.318927
				0.509599		
				0.047551		0.057714
		BIAS CORR VAR COEFF EFFICIENCY		82.36		98.72
4	1	1	1	1.000000	1	1.967326
				0.509599		
				0.047551		0.103109
		BIAS CORR VAR COEFF EFFICIENCY EFF (M/N)		100.00		100.00
				70.86		22.90
5	5	5	1	0.423259	1	0.068304
			2	0.158769	2	0.118288
			3	0.141848	3	0.165150
			4	0.136180	4	0.231394

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
5	5	6	5	0.139244	5	0.365642
			BIAS CORR	0.762771		
			VAR COEFF	0.026635		0.033272
			EFFICIENCY	100.00		100.00
			EFF (M/N)	100.00		100.00
			1	0.428465	2	0.161075
			2	0.231580	3	0.169491
			4	0.149468	4	0.232027
			5	0.140487	5	0.366957
			BIAS CORR	0.760966		
5	5	5	1	0.500459	2	0.247979
			3	0.313175	4	0.308940
			5	0.185866	5	0.371237
			BIAS CORR	0.756438		
			VAR COEFF	0.077435		0.033824
			EFFICIENCY	97.08		96.37
			1	0.597220	3	0.437240
			4	0.402780	5	0.459756
			BIAS CORR	0.708888		
			VAR COEFF	0.029242		0.035120
5	5	4	1	0.597220	3	0.437240
			4	0.402780	5	0.459756
			BIAS CORR	0.708888		
			VAR COEFF	0.029242		0.035120
			EFFICIENCY	97.08		96.37
			1	1.000000	5	0.742016
			BIAS CORR	0.466085		
			VAR COEFF	0.039777		0.043824
			EFFICIENCY	66.96		79.92
			1	0.440073	1	0.085336
5	5	3	2	0.164367	2	0.147076
			3	0.146084	3	0.209821
			4	0.249470	4	0.634249
			BIAS CORR	0.711238		
			VAR COEFF	0.027660		0.041827
			EFFICIENCY	100.00		100.00
			EFF (M/N)	96.79		79.95

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.444864	2	0.200637
			2	0.239427	3	0.209362
			4	0.315710	4	0.636812
			BIAS CORR	0.708494		
			VAR CCEFF	0.027984		0.042005
			EFFICIENCY	98.84		99.57
		2	1	0.597220	2	0.308743
			4	0.402780	4	0.738070
			BIAS CORR	0.708888		
			VAR CCEFF	0.029242		0.042675
			EFFICIENCY	94.59		98.01
5	4	1	1	1.000000	4	0.935539
			BIAS CORR	0.466085		
			VAR CCEFF	0.039777		0.045865
			EFFICIENCY	69.54		91.20
5	3	3	1	0.467736	1	0.112938
			2	0.173311	2	0.193056
			3	0.358953	3	0.937190
			BIAS CORR	0.640777		
			VAR CCEFF	0.029440		0.056415
			EFFICIENCY	100.00		100.00
			EFF (P/N)	90.47		56.98
5	3	2	1	0.544985	2	0.264313
			3	0.455015	3	0.941731
			BIAS CORR	0.649869		
			VAR CCEFF	0.024918		0.056729
			EFFICIENCY	98.40		99.45
5	3	1	1	1.000000	3	1.149433
			BIAS CORR	0.466085		
			VAR CCEFF	0.039777		0.058213
			EFFICIENCY	74.01		96.91
5	2	2	1	0.516368	1	0.165583
			2	0.483632	2	1.349834
			BIAS CORR	0.571310		
			VAR CCEFF	0.032636		0.086567

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
5	2	1		EFFICIENCY		100.00
				EFF(M/N)		38.44
			1	1.000000	2	1.462720
				BIAS CORR		0.087243
5	1	1		VAR CCEFF		99.23
				EFFICIENCY		
			1	1.000000	1	2.145533
				BIAS CORR		0.183105
6	6	6		VAR CCEFF		100.00
				EFFICIENCY		18.17
				EFF(M/N)		
			1	0.395235	1	0.051075
6	6	5	2	0.139949	2	0.086903
			3	0.122149	3	0.121534
			4	0.114806	4	0.159668
			5	0.112298	5	0.208100
			6	0.115564	6	0.316613
				BIAS CORR		
				VAR CCEFF		0.027569
				EFFICIENCY		100.00
				EFF(M/N)		100.00
			1	0.397961	2	0.115614
			2	0.140715	3	0.121599
			3	0.184545	4	0.159899
6	6	4	5	0.160610	5	0.208466
			6	0.116169	6	0.317210
				BIAS CORR		
				VAR CCEFF		0.027622
				EFFICIENCY		99.81
				EFF(M/N)		
			1	0.401961	2	0.177290
			2	0.200168	4	0.219278
			4	0.246765	5	0.209438
			6	0.151106	6	0.318941
				BIAS CORR		
				VAR CCEFF		0.027781
				EFFICIENCY		99.24
				EFF(M/N)		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
6	6	3	1	0.469540	3	0.297445
			3	0.344021	5	0.279190
			6	0.186440	6	0.323087
		BIAS CORR		0.734993		
				0.023034		0.020169
				95.42		97.87
6	6	2	1	0.553764	4	0.463628
			4	0.446236	6	0.402473
				0.663423		
		BIAS CORR		0.074607		0.001471
				89.33		93.70
6	6	1	1	1.000000	5	0.885852
				0.433304		
				0.034378		0.037662
		BIAS CORR		63.94		73.20
6	5	5	1	0.406682	1	0.061252
			2	0.143835	2	0.104022
			3	0.125310	3	0.145064
			4	0.117254	4	0.189388
			5	0.206919	5	0.543426
		BIAS CORR		0.710806		
				0.022621		0.033198
				100.00		100.00
				97.17		83.04
6	5	4	1	0.409527	2	0.143312
			2	0.144640	3	0.145196
			3	0.189060	4	0.189733
			5	0.256773	5	0.544631
				0.707976		
		BIAS CORR		0.022786		0.033276
				99.28		99.77
6	5	3	1	0.470167	2	0.212407
			3	0.270436	4	0.260904
			5	0.259397	5	0.547978
		BIAS CORR		0.710460		



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				0.023047 98.15		0.033502 99.09
			VAR CCEFF EFFICIENCY			
6	5	2	1	0.553764	2	0.356135
			4	0.446236	5	0.636307
			BIAS CORR	0.663423		
			VAR CCEFF	0.024607		0.034054
			EFFICIENCY	91.93		97.49
6	5	1	1	1.000000	5	0.885852
			BIAS CORR	0.433304		
			VAR CCEFF	0.034378		0.037662
			EFFICIENCY	65.80		88.15
6	4	4	1	0.425035	1	0.076326
			2	0.149860	2	0.129153
			3	0.129903	3	0.178995
			4	0.295202	4	0.703439
			BIAS CORR	0.661477		
			VAR CCEFF	0.023656		0.041786
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.92		65.98
6	4	3	1	0.428063	2	0.178241
			2	0.212152	3	0.175253
			4	0.359784	4	0.786013
			BIAS CORR	0.660569		
			VAR CCEFF	0.023837		0.041907
			EFFICIENCY	99.24		99.71
6	4	2	1	0.553764	2	0.263931
			4	0.446236	4	0.878536
			BIAS CORR	0.663423		
			VAR CCEFF	0.024607		0.042252
			EFFICIENCY	96.13		98.90
6	4	1	1	1.000000	4	1.053747
			BIAS CORR	0.433304		
			VAR CCEFF	0.034378		0.044032
			EFFICIENCY	68.81		94.90

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.453878	1	0.100851
			2	0.158817	2	0.169521
			3	0.387306	3	1.073971
		BIAS CORR		0.603077		0.056390
				0.025297		100.00
				100.00		48.89
				86.89		
6	3	2	1	0.521025	2	0.234525
			3	0.478975	3	1.077445
				0.604628		0.056600
		BIAS CORR		0.025613		99.63
				98.77		
6	3	1	1	1.000000	3	1.264233
				0.433304		0.057514
				0.034378		98.05
		BIAS CORR		73.58		
6	2	2	1	0.503025	1	0.147671
			2	0.496975	2	1.485760
				0.531052		0.086553
		BIAS CORR		0.028140		100.00
				100.00		31.85
				78.11		
6	2	1	1	1.000000	2	1.587327
				0.433304		0.087005
				0.034378		99.48
		BIAS CORR		81.85		
6	1	1	1	1.000000	1	2.307851
				0.433304		0.183105
				0.034378		100.00
		BIAS CORR		100.00		15.06
				63.94		
7	7	7	1	0.373455	1	0.039430
			2	0.126634	2	0.067167
			3	0.108517	3	0.092624
			4	0.100429	4	0.119177

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			5	0.096671	5	0.149537
			6	0.095542	6	0.189028
			7	0.098712	7	0.279866
			BIAS CORR	0.744357		
			VAR CCEFF	0.018686		0.023531
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
7	7	6	1	0.375104	2	0.093170
			2	0.127061	3	0.092622
			3	0.159639	4	0.119268
			5	0.143274	5	0.149687
			6	0.095829	6	0.189243
			7	0.099094	7	0.280194
			BIAS CORR	0.743472		
			VAR CCEFF	0.018770		0.023559
			EFFICIENCY	99.55		99.88
7	7	5	1	0.377161	2	0.135275
			2	0.177239	4	0.166500
			4	0.210732	5	0.150009
			6	0.135329	6	0.189756
			7	0.099539	7	0.281018
			BIAS CORR	0.742268		
			VAR CCEFF	0.018879		0.023630
			EFFICIENCY	98.98		99.58
7	7	4	1	0.429683	3	0.223119
			3	0.234260	5	0.206069
			5	0.207341	6	0.190900
			7	0.128716	7	0.282919
			BIAS CORR	0.739805		
			VAR CCEFF	0.019088		0.023796
			EFFICIENCY	97.90		98.88
7	7	3	1	0.442642	4	0.332176
			3	0.296454	6	0.255526
			6	0.260904	7	0.287923
			BIAS CORR	0.704618		
			VAR CCEFF	0.019676		0.024242
			EFFICIENCY	94.97		97.07

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	J	SCALE
7	7	2	1	0.562259	5	0.480347
			5	0.437741	7	0.36064
			BIAS CORR	0.670981		
			VAR CCEFF	0.021126		0.025475
			EFFICIENCY	88.45		92.37
7	7	1	2	1.000000	6	0.849921
			BIAS CORR	0.588767		
			VAR CCEFF	0.030113		0.032258
			EFFICIENCY	62.05		72.95
7	6	6	1	0.382126	1	0.046569
			2	0.129493	2	0.078279
			3	0.110862	3	0.107743
			4	0.102443	4	0.138332
			5	0.098214	5	0.172588
			6	0.176861	6	0.477329
			BIAS CORR	0.709373		
			VAR CCEFF	0.019120		0.027515
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.73		85.52
7	6	5	1	0.383802	2	0.108627
			2	0.129939	3	0.107763
			3	0.163022	4	0.138464
			5	0.145762	5	0.172795
			6	0.177475	6	0.477980
			BIAS CORR	0.708332		
			VAR CCEFF	0.019207		0.027554
			EFFICIENCY	99.55		99.86
7	6	4	1	0.385936	2	0.157690
			2	0.181221	4	0.193509
			4	0.214857	5	0.173249
			6	0.217987	6	0.479559
			BIAS CORR	0.706955		
			VAR CCEFF	0.019320		0.027650
7	6	3	1	0.442642	3	0.260020
			EFFICIENCY	98.96		99.51

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			3	0.296454	5	0.238620
			6	0.260904	6	0.483176
		BIAS CORR		0.704618		
		VAR CCEFF		0.019676		0.027875
		EFFICIENCY		97.18		98.71
7	6	2	1	0.562259	4	0.387244
			5	0.437741	6	0.564154
		BIAS CORR		0.670981		
		VAR CCEFF		0.021126		0.028478
		EFFICIENCY		90.50		96.62
7	6	1	2	1.000000	6	0.849921
		BIAS CORR		0.588767		
		VAR CCEFF		0.030113		0.032258
		EFFICIENCY		63.50		85.30
7	5	5	1	0.395342	1	0.055822
			2	0.133760	2	0.093590
			3	0.114313	3	0.128582
			4	0.105165	4	0.164086
			5	0.251421	5	0.678947
		BIAS CORR		0.668742		
		VAR CCEFF		0.019786		0.033168
		EFFICIENCY		100.00		100.00
		EFF(M/N)		94.44		70.94
7	5	4	1	0.397109	2	0.130002
			2	0.134233	3	0.128640
			3	0.167876	4	0.164287
			5	0.300782	5	0.680024
		BIAS CORR		0.667526		
		VAR CCEFF		0.019878		0.033224
		EFFICIENCY		99.54		99.83
7	5	3	1	0.451488	2	0.188652
			3	0.245186	4	0.230139
			5	0.303326	5	0.682567
		BIAS CORR		0.669888		
		VAR CCEFF		0.020065		0.033362
		EFFICIENCY		98.61		99.42

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.562259	3	0.310780
			5	0.437741	5	0.764880
			BIAS CORR	0.670981		
			VAR CCEFF	0.021126		0.033682
			EFFICIENCY	93.66		98.48
7	5	1	2	1.000000	5	0.990542
			BIAS CORR	0.588767		
			VAR CCEFF	0.030113		0.035724
			EFFICIENCY	65.71		92.85
7	4	4	1	0.414724	1	0.069465
			2	0.139891	2	0.116190
			3	0.118974	3	0.158620
			4	0.326411	4	0.906433
			BIAS CORR	0.621941		
			VAR CCEFF	0.020769		0.041766
			EFFICIENCY	100.00		100.00
			EFF(M/N)	89.97		56.34
7	4	3	1	0.416925	2	0.161564
			2	0.194654	3	0.158750
			4	0.388421	4	0.908148
			BIAS CORR	0.621707		
			VAR CCEFF	0.020887		0.041852
			EFFICIENCY	99.43		99.79
7	4	2	1	0.527221	2	0.234201
			4	0.472779	4	0.992922
			BIAS CORR	0.625279		
			VAR CCEFF	0.021422		0.042063
			EFFICIENCY	96.95		99.30
7	4	1	2	1.000000	4	1.151737
			BIAS CORR	0.588767		
			VAR CCEFF	0.030113		0.043209
			EFFICIENCY	68.97		96.66
7	3	3	1	0.444191	1	0.091696
			2	0.148760	2	0.152393

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
7	3	2	3	0.407049	3	1.190810
				BIAS CORR		
				0.566931		
				VAR CCEFF		0.056376
				0.022274		
7	3	1		EFFICIENCY		100.00
				100.00		
				EFF(M/N)		41.74
				83.89		
7	3	2	1	0.504951	2	0.212415
			3	0.495049	2	1.193542
				BIAS CORR		
				0.568608		
				VAR CCEFF		0.056527
7	3	1		0.022505		99.73
				98.98		
				EFFICIENCY		
7	2	2	2	1.000000	2	1.364169
				BIAS CORR		
				0.588767		
				VAR CCEFF		0.057147
				0.030113		98.65
7	2	1		EFFICIENCY		
				73.97		
7	2	2	1	0.493603	1	0.134147
			2	0.506397	2	1.605642
				BIAS CORR		
				0.499240		
				VAR CCEFF		0.086545
7	2	1		0.024835		100.00
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		27.19
				75.24		
7	1	1	2	1.000000	2	1.698465
				BIAS CORR		
				0.588767		
				VAR CCEFF		0.086868
				0.030113		99.63
7	1	1		EFFICIENCY		
				82.47		
7	1	1	1	1.000000	1	2.454632
				BIAS CORR		
				0.407393		
				VAR CCEFF		0.183105
				0.030390		100.00
8	8	8		EFFICIENCY		12.65
				100.00		
				EFF(M/N)		
				61.49		
8	8	8	1	0.356281	1	0.032274
			2	0.116682	2	0.053833
			3	0.098498	2	0.073515
			4	0.090033	4	0.093376
			5	0.085689	5	0.114864
			6	0.083565	6	0.135999

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			7	0.083139	7	0.173230
			8	0.086116	8	0.251223
			BIAS CORR	0.737548		
			VAR CCEFF	0.016235		0.020922
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
	8	7	1	0.357358	2	0.075111
			2	0.117014	3	0.073494
			3	0.098688	4	0.093415
			4	0.135236	5	0.114930
			6	0.122070	6	0.140103
			7	0.083291	7	0.173362
			8	0.086343	8	0.251422
			BIAS CORR	0.736949		
			VAR CCEFF	0.016286		0.020939
			EFFICIENCY	99.69		99.42
8	8	6	1	0.358713	2	0.107632
			2	0.117339	4	0.131969
			3	0.143014	5	0.115037
			4	0.177888	6	0.140336
			7	0.116471	7	0.173638
			8	0.086575	8	0.251829
			BIAS CORR	0.735057		
			VAR CCEFF	0.016348		0.020976
			EFFICIENCY	99.31		99.74
8	8	5	1	0.360946	3	0.170133
			2	0.162100	5	0.160899
			4	0.188324	6	0.140740
			6	0.177703	7	0.174332
			8	0.110928	8	0.252871
			BIAS CORR	0.731432		
			VAR CCEFF	0.016455		0.020661
			EFFICIENCY	98.67		99.33
8	8	4	1	0.409633	3	0.177380
			3	0.258650	5	0.242898
			6	0.219467	7	0.231188
			8	0.112250	8	0.254818



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.731997		
			VAR CCEFF	0.016671		0.020836
			EFFICIENCY	97.38		98.50
8	8	3	1	0.459747	4	0.341750
			4	0.313809	7	0.283020
			7	0.226444	8	0.260475
			BIAS CORR	0.706550		
			VAR CCEFF	0.017182		0.021323
			EFFICIENCY	94.49		96.24
8	8	2	1	0.533708	5	0.498151
			5	0.466292	8	0.368859
			BIAS CORR	0.638958		
			VAR CCEFF	0.018601		0.022512
			EFFICIENCY	87.28		91.10
8	8	1	2	1.000000	7	0.822369
			BIAS CORR	0.555716		
			VAR CCEFF	0.026800		0.028421
			EFFICIENCY	60.58		72.21
8	7	7	1	0.363076	1	0.036881
			2	0.118866	2	0.061461
			3	0.100319	3	0.083937
			4	0.091592	4	0.106345
			5	0.087079	5	0.130657
			6	0.084596	6	0.158386
			7	0.154473	7	0.426809
			BIAS CORR	0.707518		
			VAR CCEFF	0.016546		0.023490
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.12		87.37
8	7	6	1	0.364190	2	0.085787
			2	0.119709	3	0.083322
			3	0.100516	4	0.106402
			4	0.137534	5	0.130747
			6	0.123729	6	0.158521
			7	0.154823	7	0.427190
			BIAS CORR	0.706418		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		
				0.016598 99.69		0.023512 99.91
8	7	5	1	0.365581	2	0.122954
			2	0.119545	4	0.150459
			3	0.145616	5	0.130901
			5	0.180649	6	0.158825
			7	0.188610	7	0.428015
				BIAS CORR		
				0.704832		
				VAR CCEFF		0.023560
				EFFICIENCY		99.70
8	7	4	1	0.412669	3	0.201171
			3	0.215499	5	0.183254
			5	0.181839	6	0.159370
			7	0.189993	7	0.429967
				BIAS CORR		
				0.707445		
				VAR CCEFF		0.023670
				EFFICIENCY		99.24
8	7	3	1	0.459747	3	0.202803
			4	0.313809	5	0.276396
			7	0.226444	7	0.496646
				BIAS CORR		
				0.706550		
				VAR CCEFF		0.023895
				EFFICIENCY		98.31
8	7	2	1	0.533708	4	0.390941
			5	0.466292	7	0.562516
				BIAS CORR		
				0.638958		
				VAR CCEFF		0.024530
				EFFICIENCY		95.76
8	7	1	2	1.000000	7	0.822369
				BIAS CORR		
				0.555716		
				VAR CCEFF		0.028421
				EFFICIENCY		82.65
8	6	6	1	0.373122	1	0.042987
			2	0.122091	2	0.071674
			3	0.102852	3	0.097426

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			4	0.093861	4	0.123583
			5	0.088821	5	0.150776
			6	0.219253	6	0.601613
			BIAS CORR	0.673056		
			VAR CCEFF	0.017006		0.027492
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.47		74.65
8	6	5	1	0.374280	2	0.100042
			2	0.122448	3	0.097423
			3	0.103059	4	0.123668
			4	0.140730	5	0.150902
			6	0.259482	6	0.602231
			BIAS CORR	0.671853		
			VAR CCEFF	0.017060		0.027521
			EFFICIENCY	99.68		99.89
8	6	4	1	0.375767	2	0.143232
			2	0.168569	4	0.174867
			4	0.195213	5	0.151126
			6	0.260450	6	0.603579
			BIAS CORR	0.672222		
			VAR CCEFF	0.017133		0.027586
			EFFICIENCY	99.26		99.66
8	6	3	1	0.426609	3	0.234200
			3	0.268639	5	0.212148
			6	0.304752	6	0.606583
			BIAS CORR	0.672087		
			VAR CCEFF	0.017366		0.027736
			EFFICIENCY	97.93		99.12
8	6	2	1	0.533708	4	0.343271
			5	0.466292	6	0.682729
			BIAS CORR	0.638958		
			VAR CCEFF	0.018601		0.028110
			EFFICIENCY	91.43		97.80
8	6	1	2	1.000000	6	0.944890
			BIAS CORR	0.555716		
			VAR CCEFF	0.026800		0.030270

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				63.45		90.82
			EFFICIENCY			
8	5	5	1	0.387222	1	0.051523
			2	0.126446	2	0.085504
			3	0.106444	3	0.116460
			4	0.096627	4	0.146458
			5	0.283260	5	0.790833
			BIAS CORR	0.634077		
			VAR CCEFF	0.017653		0.033152
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.97		61.90
8	5	4	1	0.388483	2	0.119530
			2	0.126764	3	0.116480
			3	0.153777	4	0.146588
			5	0.330976	5	0.791772
			BIAS CORR	0.633495		
			VAR CCEFF	0.017713		0.033194
			EFFICIENCY	99.66		99.87
8	5	3	1	0.438615	2	0.171244
			3	0.227977	4	0.207890
			5	0.333408	5	0.793757
			BIAS CORR	0.635713		
			VAR CCEFF	0.017856		0.033287
			EFFICIENCY	98.86		99.59
8	5	2	1	0.533708	2	0.275716
			5	0.466292	5	0.869996
			BIAS CORR	0.638958		
			VAR CCEFF	0.018601		0.033500
			EFFICIENCY	94.91		98.96
8	5	1	2	1.000000	5	1.077290
			BIAS CORR	0.555716		
			VAR CCEFF	0.026800		0.034830
			EFFICIENCY	65.87		95.18
8	4	4	1	0.407187	1	0.064025
			2	0.132610	2	0.106220
			3	0.111063	3	0.143535

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			4	0.349140	4	1.011442
			BIAS CORR	0.589548		
			VAR CCEFF	0.018575		0.041754
			EFFICIENCY	100.00		100.00
			EFF(M/N)	87.40		49.15
8	4	3	1	0.408922	2	0.148544
			2	0.182369	2	0.143600
			4	0.408709	4	1.012879
			BIAS CORR	0.589615		
			VAR CCEFF	0.018660		0.041819
			EFFICIENCY	99.55		99.84
8	4	2	1	0.509140	2	0.212425
			4	0.490860	4	1.091177
			BIAS CORR	0.593377		
			VAR CCEFF	0.019062		0.041760
			EFFICIENCY	97.45		99.51
8	4	1	2	1.000000	4	1.237230
			BIAS CORR	0.555716		
			VAR CCEFF	0.026800		0.042763
			EFFICIENCY	69.31		97.64
8	3	3	1	0.437033	1	0.084471
			2	0.141365	2	0.139243
			3	0.421602	3	1.293750
			BIAS CORR	0.537371		
			VAR CCEFF	0.019961		0.056368
			EFFICIENCY	100.00		100.00
			EFF(M/N)	81.33		36.41
8	3	2	1	0.493384	2	0.195171
			3	0.506616	2	1.295993
			BIAS CORR	0.539058		
			VAR CCEFF	0.020140		0.056481
			EFFICIENCY	99.11		99.80
8	3	1	2	1.000000	3	1.453656
			BIAS CORR	0.555716		
			VAR CCEFF	0.026800		0.056930

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				74.48		99.01
				EFFICIENCY		
8	2	2	1	0.486594	1	0.123494
			2	0.513406	2	1.713658
				BIAS CORR		
				0.473232		0.086540
				VAR CCEFF		100.00
				0.022292		23.71
				EFFICIENCY		
				100.00		
				EFF(M/N)		
				72.83		
8	2	1	2	1.000000	2	1.799481
				BIAS CORR		
				0.555716		0.086782
				VAR CCEFF		99.72
				0.026800		
				EFFICIENCY		
				83.18		
8	1	1	1	1.000000	1	2.589305
				BIAS CORR		
				0.386204		0.183105
				VAR CCEFF		100.00
				0.027311		11.21
				EFFICIENCY		
				100.00		
				EFF(M/N)		
				59.45		
9	9	9	1	0.342195	1	0.026755
			2	0.108933	2	0.044336
			3	0.090808	3	0.060119
			4	0.082144	4	0.075673
			5	0.077495	5	0.091960
			6	0.074860	6	0.109962
			7	0.073646	7	0.131354
			8	0.073569	8	0.159970
			9	0.076349	9	0.228220
				BIAS CORR		
				0.731762		0.018195
				VAR CCEFF		100.00
				0.014342		100.00
				EFFICIENCY		
				100.00		
				EFF(M/N)		
				100.00		
9	9	8	1	0.342916	2	0.062145
			2	0.109176	3	0.060094
			3	0.090889	4	0.075653
			4	0.121505	5	0.091985
			6	0.111600	6	0.110023
			7	0.073694	7	0.131417
			8	0.073728	8	0.160058

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
9	9	7	9	0.076493	9	0.221347
			BIAS CORR	0.731318		
			VAR CCEFF	0.014373		0.018205
			EFFICIENCY	99.78		99.94
			1	0.343800	2	0.088245
			2	0.109299	4	0.107845
			3	0.130277	5	0.091989
			5	0.159378	6	0.110192
			7	0.106788	7	0.131498
			8	0.073778	8	0.160252
9	9	6	9	0.076680	9	0.228603
			BIAS CORR	0.730784		
			VAR CCEFF	0.014410		0.018226
			EFFICIENCY	99.53		99.83
			1	0.344997	2	0.088382
			2	0.149466	4	0.154553
			4	0.170966	6	0.153887
			6	0.155152	7	0.131683
			8	0.102643	8	0.160637
			9	0.076877	9	0.229131
9	9	5	BIAS CORR	0.730002		
			VAR CCEFF	0.014465		0.018270
			EFFICIENCY	99.15		99.59
			1	0.387965	2	0.144244
			3	0.195830	5	0.180040
			5	0.160919	7	0.180757
			7	0.157005	8	0.161100
			9	0.098282	9	0.230075
			BIAS CORR	0.728389		
			VAR CCEFF	0.014579		0.018347
9	9	4	EFFICIENCY	98.38		99.17
			1	0.394034	4	0.210623
			3	0.237453	6	0.233058
			6	0.250948	8	0.214124
			9	0.117565	9	0.232205
			BIAS CORR	0.719429		
			VAR CCEFF	0.014812		0.018530

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		96.83
						98.19
9	9	3	1	0.439902	4	0.272248
			4	0.332680	7	0.338491
			8	0.227418	9	0.283677
				BIAS CORR		
				VAR CCEFF		0.018950
				EFFICIENCY		96.02
9	9	2	1	0.540110	6	0.511440
			6	0.459890	9	0.337256
				BIAS CORR		
				VAR CCEFF		0.020089
				EFFICIENCY		90.57
9	9	1	3	1.000000	8	0.800360
				BIAS CORR		
				VAR CCEFF		0.025550
				EFFICIENCY		71.21
9	8	8	1	0.347715	1	0.030091
			2	0.110679	2	0.049881
			3	0.092211	3	0.067489
			4	0.083444	4	0.085131
			5	0.078578	5	0.103004
			6	0.075878	6	0.123200
			7	0.074362	7	0.146356
			8	0.137132	8	0.386786
				BIAS CORR		
				VAR CCEFF		0.020491
				EFFICIENCY		100.00
				EFF(M/N)		88.80
9	8	7	1	0.348456	2	0.069915
			2	0.110929	3	0.067464
			3	0.092295	4	0.085159
			4	0.123359	5	0.103040
			6	0.113135	6	0.123277
			7	0.074412	7	0.146437
			8	0.137414	8	0.387026
				BIAS CORR		
						0.705000



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		
				0.014606 99.78		0.020504 99.94
9	8	6	1	0.349367	2	0.099231
			2	0.111058	4	0.121272
			3	0.132313	5	0.103058
			5	0.161678	6	0.123484
			7	0.107960	7	0.146547
			8	0.137623	8	0.387530
				BIAS CORR		
				0.704394		
				VAR CCEFF		0.020530
				EFFICIENCY		99.81
				0.014644 99.52		
9	8	5	1	0.350592	2	0.099413
			2	0.151852	4	0.173649
			4	0.173495	6	0.172484
			6	0.157124	7	0.146793
			8	0.166938	8	0.388550
				BIAS CORR		
				0.703542		
				VAR CCEFF		0.020586
				EFFICIENCY		99.54
				0.014700 99.14		
9	8	4	1	0.395213	2	0.162288
			3	0.238307	5	0.213280
			6	0.197927	7	0.201902
			8	0.168553	8	0.390129
				BIAS CORR		
				0.704812		
				VAR CCEFF		0.020683
				EFFICIENCY		99.07
				0.014855 98.11		
9	8	3	1	0.439902	4	0.237095
			4	0.332680	6	0.261169
			8	0.227418	8	0.451709
				BIAS CORR		
				0.699406		
				VAR CCEFF		0.020912
				EFFICIENCY		97.98
				0.015255 95.54		
9	8	2	1	0.540110	5	0.414515
			6	0.459890	8	0.512636
				BIAS CORR		
				0.648329		
				VAR CCEFF		0.021509
				0.016554		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				88.04		95.27
			EFFICIENCY			
8	1	3	1.000000	0.800360		
			BIAS CORR	0.651354		
			VAR CCEFF	0.024094		0.025550
			EFFICIENCY	60.49		80.20
7	7	1	0.355680	0.034407		
		2	0.113118	0.056813		
		3	0.094350	0.077376		
		4	0.085013	0.096417		
		5	0.080257	0.117593		
		6	0.077033	0.139267		
		7	0.194549	0.541850		
			BIAS CORR	0.675639		
			VAR CCEFF	0.014908		0.023472
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.20		77.52
6	6	1	0.356453	0.079728		
		2	0.113378	0.077355		
		3	0.094440	0.096457		
		4	0.125786	0.117644		
		5	0.115089	0.139366		
		6	0.194853	0.542223		
			BIAS CORR	0.675063		
			VAR CCEFF	0.014942		0.023489
			EFFICIENCY	99.77		99.93
5	5	1	0.357389	0.113363		
		2	0.113512	0.137890		
		3	0.135215	0.117687		
		4	0.164783	0.139627		
		5	0.229100	0.542940		
			BIAS CORR	0.674406		
			VAR CCEFF	0.014981		0.023524
			EFFICIENCY	99.51		99.78
4	4	1	0.401308	0.113613		
		3	0.202362	0.197774		
		5	0.165745	0.195653		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			7	0.230586	7	0.544413
			BIAS CORR	0.676813		
			VAR CCEFF	0.015082		0.023596
			EFFICIENCY	98.85		99.47
9	7	3	1	0.443014	3	0.185379
			4	0.288399	5	0.242633
			7	0.268587	7	0.608599
			BIAS CORR	0.677874		
			VAR CCEFF	0.015358		0.023719
			EFFICIENCY	97.07		98.96
9	7	2	1	0.540110	4	0.343639
			6	0.459890	7	0.671973
			BIAS CORR	0.648329		
			VAR CCEFF	0.016554		0.024108
			EFFICIENCY	90.06		97.36
9	7	1	3	1.000000	7	0.909950
			BIAS CORR	0.651354		
			VAR CCEFF	0.024094		0.026414
			EFFICIENCY	61.88		88.86
9	6	6	1	0.366448	1	0.040029
			2	0.116564	2	0.066501
			3	0.096774	3	0.089149
			4	0.087576	4	0.112785
			5	0.081953	5	0.135288
			6	0.250685	6	0.705063
			BIAS CORR	0.642293		
			VAR CCEFF	0.015363		0.027479
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.35		66.21
9	6	5	1	0.367255	2	0.093171
			2	0.116836	3	0.089134
			3	0.096870	4	0.112845
			4	0.129216	5	0.135361
			6	0.289823	6	0.705632
			BIAS CORR	0.641652		
			VAR CCEFF	0.015398		0.027502

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER - 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.77
						99.92
4	6	4	1	0.368474	2	0.131956
			2	0.154368	4	0.160621
			4	0.181405	5	0.135437
			6	0.290752	6	0.706746
				BIAS CORR		
				0.642104		
				VAR CLEFF		0.027548
				EFFICIENCY		99.75
9	6	3	1	0.415522	2	0.132302
			3	0.244724	4	0.225636
			6	0.334755	6	0.773069
				BIAS CORR		
				0.647822		
				VAR CLEFF		0.027644
				EFFICIENCY		99.40
4	6	2	1	0.540110	4	0.312465
			6	0.459890	6	0.780100
				BIAS CORR		
				0.648329		
				VAR CLEFF		0.027915
				EFFICIENCY		98.44
9	6	1	3	1.000000	6	1.023449
				BIAS CORR		
				0.651354		
				VAR CLEFF		0.029374
				EFFICIENCY		93.67
5	5	5	1	0.381100	1	0.048031
			2	0.120866	2	0.078958
			3	0.100551	3	0.107156
			4	0.090217	4	0.133163
			5	0.307266	5	0.887210
				BIAS CORR		
				0.604907		
				VAR CLEFF		0.033142
				EFFICIENCY		100.00
				EFF(M/N)		54.90
9	5	4	1	0.382078	2	0.110976
			2	0.121093	3	0.107156
			3	0.143620	4	0.133255

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
9	5	3	5	0.353210	5	0.888026
			BIAS CORR	0.604626		
			VAR CCEFF	0.016023		0.033175
			EFFICIENCY	99.74		99.90
9	5	3	1	0.19120	2	0.157654
			3	0.215340	4	0.190750
			5	0.355540	5	0.889613
			BIAS CORR	0.606709		
			VAR CCEFF	0.016138		0.033242
9	5	2		99.03		99.70
			EFFICIENCY			
			1	0.514045	3	0.256409
			5	0.485955	5	0.960480
9	5	1				
			BIAS CORR	0.610840		
			VAR CCEFF	0.016700		0.031395
			EFFICIENCY	95.69		99.24
9	5	1	3	1.000000	5	1.153055
			BIAS CORR	0.651354		
			VAR CCEFF	0.024094		0.034335
			EFFICIENCY	66.33		96.53
9	4	4	1	0.401427	1	0.059576
			2	0.127060	2	0.098292
			3	0.105056	3	0.131771
			4	0.366457	4	1.104106
			BIAS CORR	0.562358		
9	4	4				
			VAR CCEFF	0.016844		0.041747
			EFFICIENCY	100.00		100.00
			EFF (M/N)	85.14		43.58
9	4	3	1	0.402868	2	0.138038
			2	0.173235	3	0.131799
			4	0.423896	4	1.105328
			BIAS CORR	0.562572		
			VAR CCEFF	0.016909		0.041797
9	4	2				
			EFFICIENCY	99.62		99.88
			1	0.495966	2	0.195532
			4	0.504034	4	1.178211

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	4	1	3	1.000000	4	1.313967
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	3	3	1	0.431525	1	0.078592
			2	0.135695	2	0.128750
			3	0.432780	3	1.386365
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		
9	3	2	1	0.484649	2	0.181245
			3	0.515351	3	1.388235
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	3	1	3	1.000000	3	1.535264
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	2	2	1	0.481175	1	0.114836
			2	0.518825	2	1.812467
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		
9	2	1	2	1.000000	2	1.892539
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	1	1	1	1.000000	1	2.714215

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.368431	
				VAR CCEFF	0.024855	0.183105
				EFFICIENCY	100.00	100.00
				EFF(M/N)	57.70	9.94
10	10	10	1	0.330377	1	0.022625
			2	0.102710	2	0.037301
			3	0.084709	3	0.050258
			4	0.075939	4	0.062909
			5	0.071135	5	0.075780
			6	0.068171	6	0.089575
			7	0.066600	7	0.105029
			8	0.065825	8	0.123613
			9	0.065979	9	0.148693
			10	0.068555	10	0.209311
			BIAS CORR	0.726751		
			VAR CCEFF	0.012837	0.016341	
			EFFICIENCY	100.00	100.00	
			EFF(M/N)	100.00	100.00	
10	10	9	1	0.330927	2	0.052475
			2	0.102761	3	0.050272
			3	0.085025	4	0.062922
			4	0.075804	5	0.075779
			5	0.106652	6	0.089625
			7	0.098287	7	0.105051
			8	0.065785	8	0.123667
			9	0.066117	9	0.148750
			10	0.068643	10	0.209356
						BIAS CORR
			VAR CCEFF	0.012858	0.016348	
			EFFICIENCY	99.84	99.96	
10	10	8	1	0.331472	2	0.074014
			2	0.103202	4	0.090222
			3	0.084592	5	0.075704
			4	0.111540	6	0.089846
			6	0.134543	7	0.104948
			8	0.094833	8	0.123858
			9	0.066039	9	0.148831
			10	0.068781	10	0.209562

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
10	10	7		BIAS CORR		
				VAR CCEFF		0.016361
				EFFICIENCY		99.68
			1	0.725635		
			2	0.103053	2	0.074079
			3	0.120852	4	0.127644
			5	0.145958	6	0.126988
			7	0.137474	7	0.104843
			9	0.091436	8	0.124205
			10	0.068855	9	0.148953
				BIAS CORR	10	0.209877
				VAR CCEFF		
				EFFICIENCY		0.016385
						99.73
10	10	6	1	0.724580		
			2	0.012914		
			4	99.40		
			1	0.333769	2	0.120505
			2	0.140362	5	0.154829
			4	0.158345	7	0.147340
			6	0.140371	8	0.123809
			8	0.139659	9	0.149568
			10	0.087493	10	0.210353
				BIAS CORR		
				VAR CCEFF		0.016426
				EFFICIENCY		99.48
10	10	5	1	0.374319	2	0.154166
			3	0.183482	6	0.219109
			5	0.185237	8	0.170440
			8	0.168759	9	0.150092
			10	0.088203	10	0.211500
				BIAS CORR		
				VAR CCEFF		0.016516
				EFFICIENCY		98.94
10	10	4	1	0.721995	4	0.219884
			3	0.013084	7	0.260254
			6	98.11	9	0.199339
			9	0.380571	10	0.213359
				0.221172		
				0.223248		
				0.175008		
				BIAS CORR		
				VAR CCEFF		0.016672
				EFFICIENCY		98.01



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.424731	5	0.295519
			4	0.305497	8	0.319119
			8	0.269772	10	0.260887
			BIAS CORR	0.676574		
			VAR CCEFF	0.013746		0.017062
			EFFICIENCY	93.39		95.77
10	10	2	1	0.519146	7	0.520784
			6	0.480854	10	0.311934
			BIAS CORR	0.623657		
			VAR CCEFF	0.014962		0.018196
			EFFICIENCY	85.80		89.80
10	10	1	3	1.000000	9	0.782238
			BIAS CORR	0.620866		
			VAR CCEFF	0.021855		0.023316
			EFFICIENCY	58.74		70.09
10	9	9	1	0.334977	1	0.025141
			2	0.104117	2	0.041394
			3	0.085906	3	0.055980
			4	0.076878	4	0.069550
			5	0.072170	5	0.084409
			6	0.068923	6	0.098936
			7	0.067389	7	0.116318
			8	0.066333	8	0.136080
			9	0.123307	9	0.354204
			BIAS CORR	0.703452		
			VAR CCEFF	0.013016		0.018170
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.63		89.93
10	9	8	1	0.335538	2	0.058258
			2	0.104170	3	0.055954
			3	0.086226	4	0.069568
			4	0.076743	5	0.084400
			5	0.108081	6	0.098996
			7	0.099427	7	0.116348
			8	0.066294	8	0.136146
			9	0.123521	9	0.354360

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
10	9	7		BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.702922		0.018178
				0.013037		99.95
				99.84		
			1	0.336101	2	0.082238
			2	0.104620	4	0.099962
			3	0.085791	5	0.084337
			4	0.113002	6	0.099249
10	9	6	6	0.141240	7	0.116244
			8	0.095689	8	0.136369
			9	0.123557	9	0.354631
				BIAS CORR		
				0.702243		
				VAR CCEFF		0.018194
				0.013062		99.87
				EFFICIENCY		
				99.65		
			1	0.337012	2	0.082324
10	9	5	2	0.104470	4	0.141674
			3	0.122501	6	0.140649
			5	0.147878	7	0.116146
			7	0.138923	8	0.136777
			9	0.149217	9	0.355112
				BIAS CORR		
				0.701161		
				VAR CCEFF		0.018224
				0.013095		99.70
				EFFICIENCY		
10	9	4		99.40		
			1	0.376788	2	0.133857
			3	0.184810	5	0.171848
			5	0.148622	7	0.163140
			7	0.139720	8	0.136367
			9	0.150060	9	0.356307
				BIAS CORR		
				0.703609		
				VAR CCEFF		0.018274
				0.013171		99.43
10	9	3		EFFICIENCY		
				98.82		
			1	0.380571	2	0.171393
			3	0.221172	6	0.242946
			6	0.223248	8	0.188147
			9	0.175008	9	0.358145
				BIAS CORR		
				0.699884		
				VAR CCEFF		0.018385
				0.013305		98.83
				EFFICIENCY		
				97.82		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE			
10	9	3	1	0.424731	4	0.244448			
			4	0.305497	7	0.288311			
			8	0.269772	9	0.414498			
			BIAS CORR		0.018577				
			VAR CCEFF		97.81				
			EFFICIENCY		94.69				
10	9	2	1	0.519146	6	0.431915			
			6	0.480854	9	0.472885			
			BIAS CORR		0.019207				
			VAR CCEFF		94.60				
			EFFICIENCY		86.99				
10	9	1	3	1.000000	9	0.782239			
			BIAS CORR		0.023316				
			VAR CCEFF		77.93				
			EFFICIENCY		59.56				
10	8	8	1	0.341457	1	0.028247			
			2	0.106180	2	0.046778			
			3	0.087291	3	0.062185			
			4	0.078693	4	0.079400			
			5	0.072974	5	0.093223			
			6	0.070345	6	0.111759			
			7	0.068145	7	0.129328			
			8	0.174914	8	0.494053			
			BIAS CORR		0.020476				
			VAR CCEFF		100.00				
			EFFICIENCY		79.80				
			EFF(M/N)		96.75				
			10	8	7	1	0.342041	2	0.065729
						2	0.106238	3	0.062159
3	0.087621	4				0.075426			
4	0.078559	5				0.093231			
5	0.109628	6				0.111833			
7	0.100847	7				0.129368			
8	0.175065	8				0.494304			
BIAS CORR		0.020487							
VAR CCEFF		0.013291							

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE				
				99.83		99.95				
				EFFICIENCY						
10	8	6	1	0.342607	2	0.092377				
			2	0.106693	4	0.112202				
			3	0.087177	5	0.093154				
			4	0.115724	6	0.112126				
			6	0.143476	7	0.129263				
			8	0.204823	8	0.494857				
				BIAS CORR	0.675870					
				VAR CCEFF	0.013316		0.020506			
				EFFICIENCY	99.65		99.85			
			10	8	5	1	0.343536	2	0.092488	
2	0.144409	4				0.159301				
4	0.162801	6				0.157880				
6	0.143864	7				0.129173				
8	0.205391	8				0.495844				
	BIAS CORR	0.676502								
	VAR CCEFF	0.013354					0.020543			
	EFFICIENCY	99.36					99.68			
10	8	4				1	0.385359	2	0.150594	
						3	0.188771	5	0.192562	
			5	0.190101	7	0.182350				
			8	0.235769	8	0.496782				
				BIAS CORR	0.676275					
				VAR CCEFF	0.013471		0.020610			
				EFFICIENCY	98.50		99.35			
			10	8	3	1	0.424731	2	0.192609	
						4	0.305497	6	0.272537	
						8	0.269772	8	0.556494	
	BIAS CORR	0.676574								
	VAR CCEFF	0.013746					0.020747			
	EFFICIENCY	96.53					98.70			
10	8	2				1	0.519146	5	0.368459	
						6	0.480854	8	0.615944	
							BIAS CORR	0.623657		
							VAR CCEFF	0.014962		0.021132
				EFFICIENCY	88.68		96.89			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
10	8	1	3	1.000000	8	0.882100
			BIAS CORR	0.620866		
			VAR CCEFF	0.021855		0.023541
			EFFICIENCY	60.71		86.98
10	7	7	1	0.350078	1	0.032381
			2	0.108582	2	0.052722
			3	0.089965	3	0.072739
			4	0.079640	4	0.087695
			5	0.075327	5	0.108428
			6	0.071267	6	0.125360
			7	0.225141	7	0.638338
			BIAS CORR	0.648048		
			VAR CCEFF	0.013603		0.023461
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.37		69.65
10	7	6	1	0.350678	2	0.074452
			2	0.108643	3	0.072715
			3	0.090301	4	0.087729
			4	0.075505	5	0.108446
			5	0.112464	6	0.125453
			7	0.258410	7	0.638681
			BIAS CORR	0.647428		
			VAR CCEFF	0.013626		0.023475
			EFFICIENCY	99.83		99.94
10	7	5	1	0.351376	2	0.105643
			2	0.108778	4	0.127260
			3	0.127557	5	0.108376
			5	0.153370	6	0.125813
			7	0.258919	7	0.639225
			BIAS CORR	0.647448		
			VAR CCEFF	0.013654		0.023502
			EFFICIENCY	99.63		99.83
10	7	4	1	0.392887	2	0.105802
			3	0.192481	4	0.180942
			5	0.154177	6	0.175093
			7	0.260455	7	0.640305

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR		
				VAR CCEFF		0.023551
				EFFICIENCY		99.62
			1	0.398320	3	0.171951
			3	0.267014	5	0.219323
			7	0.334466	7	0.701016
				BIAS CORR		
				VAR CCEFF		0.023630
				EFFICIENCY		99.29
10	7	2	1	0.519146	4	0.311446
			6	0.480854	7	0.761279
				BIAS CORR		
				VAR CCEFF		0.023902
				EFFICIENCY		98.16
			3	1.000000	7	0.982317
				BIAS CORR		
				VAR CCEFF		0.023454
				EFFICIENCY		92.17
10	6	6	1	0.361264	1	0.037497
			2	0.112330	2	0.062497
			3	0.091874	3	0.081959
			4	0.082882	4	0.104831
			5	0.076619	5	0.123282
			6	0.275030	6	0.794646
				BIAS CORR		
				VAR CCEFF		0.027471
				EFFICIENCY		100.00
				EFF(M/N)		59.49
10	6	5	1	0.361866	2	0.087669
			2	0.112579	3	0.081937
			3	0.091868	4	0.104881
			4	0.120869	5	0.123312
			6	0.312818	6	0.795170
				BIAS CORR		
				VAR CCEFF		0.027489
				EFFICIENCY		99.93

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)  
SHAPE PARAMETER = 2.50

N	M	L	i	LOCATION	i	SCALE
10	6	4	1	0.362901	2	0.122832
			2	0.152346	4	0.149446
			4	0.171029	5	0.123248
			6	0.313723	6	0.796218
			BIAS CORR		0.615981	
			VAR CCEFF		0.014111	
			EFFICIENCY		99.52	
10	6	3	1	0.407289	2	0.123046
			3	0.235783	4	0.210551
			6	0.356928	6	0.858112
			BIAS CORR		0.617066	
			VAR CCEFF		0.014244	
			EFFICIENCY		98.59	
					99.58	
10	6	2	1	0.519146	2	0.254761
			6	0.480854	6	0.919404
			BIAS CORR		0.623657	
			VAR CCEFF		0.014962	
			EFFICIENCY		93.86	
					98.86	
10	6	1	3	1.000000	6	1.092152
			BIAS CORR		0.620866	
			VAR CCEFF		0.021855	
			EFFICIENCY		64.26	
					95.36	
10	5	5	1	0.376316	1	0.045148
			2	0.116437	2	0.073443
			3	0.096009	3	0.099865
			4	0.085181	4	0.122569
			5	0.326057	5	0.972511
			BIAS CORR		0.579916	
			VAR CCEFF		0.014629	
			EFFICIENCY		100.00	
			EFF(M/N)		87.75	
					49.32	
10	5	4	1	0.377119	2	0.103760
			2	0.116598	3	0.095853
			3	0.135943	4	0.122643
			5	0.370340	5	0.972221

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
10	5	3		BIAS CORR		
				VAR CCEFF		0.033162
				EFFICIENCY		99.92
			1	0.421797	2	0.146650
			3	0.205617	4	0.176996
			5	0.372587	5	0.974508
				BIAS CORR		
				VAR CCEFF		0.033213
				EFFICIENCY		99.77
10	5	2	1	0.499586	3	0.238003
			5	0.500414	5	1.040705
				BIAS CORR		
				VAR CCEFF		0.033328
				EFFICIENCY		99.42
			3	1.000000	5	1.221152
				BIAS CORR		
				VAR CCEFF		0.034030
				EFFICIENCY		97.37
10	4	4	1	0.396876	1	0.055847
			2	0.122693	2	0.091822
			3	0.100330	3	0.122250
			4	0.380100	4	1.187527
				BIAS CORR		
				VAR CCEFF		0.041742
				EFFICIENCY		100.00
				EFF(M/N)		39.15
10	4	3	1	0.398117	2	0.129351
			2	0.166167	3	0.122255
			4	0.435715	4	1.188581
				BIAS CORR		
				VAR CCEFF		0.041782
				EFFICIENCY		99.90
			1	0.485912	2	0.181320
			4	0.514088	4	1.256875
				BIAS CORR		



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.041858 99.72
10	4	1	3	1.000000 0.620866 0.021855 70.65	4	1.384100 0.042318 98.64
10	3	3	1	0.427156	1	0.073695
			2	0.131207	2	0.120132
			3	0.441637	3	1.470960
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.056358 100.00 28.99
10	3	2	1	0.477811	2	0.169702
			3	0.522189	3	1.472546
				BIAS CORR VAR CCEFF EFFICIENCY		0.056429 99.87
10	3	1	3	1.000000 0.620866 0.021855 76.12	3	1.610652 0.056695 99.41
10	2	2	1	0.476861	1	0.107629
			2	0.523139	2	1.903991
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.086534 100.00 18.88
10	2	1	2	1.000000 0.505272 0.022131 84.12	2	1.979133 0.086685 99.83
10	1	1	1	1.000000 0.353226	1	2.831048

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TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF		0.183105
				EFFICIENCY		100.00
				EFF(M/N)		8.92
				0.022846		
				100.00		
				56.19		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.567274	1	0.277114
			2	0.432726	2	0.746001
			BIAS CORR	0.868193		
			VAR CCEFF	0.052327		0.061665
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
2	2	1	1	1.000000	2	0.928332
			BIAS CORR	0.708758		
			VAR CCEFF	0.066356		0.065872
			EFFICIENCY	78.86		93.61
2	1	1	1	1.000000	1	1.410910
			BIAS CORR	0.708758		
			VAR CCEFF	0.066356		0.132093
			EFFICIENCY	100.00		100.00
			EFF(M/N)	78.86		46.68
3	3	3	1	0.435261	1	0.137929
			2	0.262898	2	0.283129
			3	0.301842	3	0.565951
			BIAS CORR	0.856643		
			VAR CCEFF	0.034654		0.039928
			EFFICIENCY	100.00		100.00
3	3	2	1	0.578000	2	0.368206
			3	0.422000	3	0.574361
			BIAS CORR	0.852381		
			VAR CCEFF	0.036546		0.040598
			EFFICIENCY	94.82		98.35
3	3	1	2	1.000000	3	0.853373
			BIAS CORR	0.887960		
			VAR CCEFF	0.049619		0.045868
			EFFICIENCY	69.84		87.05
3	2	2	1	0.488387	1	0.203759
			2	0.511613	2	0.984072
			BIAS CORR	0.756680		
			VAR CCEFF	0.039149		0.061458

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				88.52		64.97
				EFFICIENCY		
				EFF(M/N)		
3	2	1	2	1.000000	2	1.126177
				BIAS CORR		
				0.887960		
				VAR CCEFF		0.062931
				0.049619		97.66
				EFFICIENCY		
				78.90		
3	1	1	1	1.000000	1	1.615098
				BIAS CORR		
				0.619157		
				VAR CCEFF		0.132093
				0.050639		
				EFFICIENCY		100.00
				100.00		30.23
				EFF(M/N)		
				68.43		
4	4	4	1	0.367562	1	0.084701
			2	0.197345	2	0.164654
			3	0.202675	3	0.258924
			4	0.232418	4	0.459605
				BIAS CORR		
				0.849176		
				VAR CCEFF		0.029465
				0.025851		100.00
				EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		
				100.00		
4	4	3	1	0.455464	2	0.219145
			3	0.307020	3	0.260093
			4	0.237516	4	0.462443
				BIAS CORR		
				0.852186		
				VAR CCEFF		0.029659
				0.026515		99.35
				EFFICIENCY		
				97.49		
4	4	2	1	0.491755	2	0.415925
			3	0.508245	4	0.477939
				BIAS CORR		
				0.778228		
				VAR CCEFF		0.030752
				0.027727		95.81
				EFFICIENCY		
				89.99		
4	4	1	2	1.000000	4	0.810730
				BIAS CORR		
				0.789004		
				VAR CCEFF		0.036235
				0.038687		81.32
				EFFICIENCY		
				66.82		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.396881	1	0.112520
			2	0.211127	2	0.216511
			3	0.391991	3	0.776028
		BIAS CORR		0.776704		
				0.027966		0.039788
				100.00		100.00
				92.44		74.05
4	3	2	1	0.491755	2	0.289473
			3	0.508245	3	0.781834
				0.778228		
		BIAS CORR		0.028727		0.040131
				97.35		99.14
4	3	1	2	1.000000	3	1.013257
				0.789004		
				0.038687		0.042060
		BIAS CORR		72.29		94.60
4	2	2	1	0.451980	1	0.165532
			2	0.548020	2	1.149400
				0.686649		
		BIAS CORR		0.032063		0.061400
				100.00		100.00
				80.63		47.99
4	2	1	2	1.000000	2	1.267421
				0.789004		
				0.038687		0.062145
		BIAS CORR		82.88		98.80
4	1	1	1	1.000000	1	1.777646
				0.562542		
				0.041801		0.132093
		BIAS CORR		100.00		100.00
				61.84		22.31
5	5	5	1	0.325365	1	0.058194
			2	0.161079	2	0.109920
			3	0.158567	3	0.164838
			4	0.165649	4	0.234078

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			5	0.189341	5	0.388947
			BIAS CORR	0.843712		
			VAR CCEFF	0.020589		0.023329
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.329397	2	0.148537
			2	0.239305	3	0.165085
			4	0.239854	4	0.234709
			5	0.191443	5	0.390162
			BIAS CORR	0.842708		
			VAR CCEFF	0.020869		0.023405
			EFFICIENCY	98.66		99.68
5	5	3	1	0.397789	2	0.229308
			3	0.351733	4	0.312616
			5	0.250478	5	0.394727
			BIAS CORR	0.839843		
			VAR CCEFF	0.021322		0.023708
			EFFICIENCY	96.56		98.40
5	5	2	1	0.496410	2	0.423925
			4	0.503590	5	0.488176
			BIAS CORR	0.789863		
			VAR CCEFF	0.023221		0.024555
			EFFICIENCY	88.67		94.85
5	5	1	3	1.000000	5	0.782220
			BIAS CORR	0.886752		
			VAR CCEFF	0.032204		0.030531
			EFFICIENCY	63.93		76.41
5	4	4	1	0.344148	1	0.072678
			2	0.169821	2	0.136738
			3	0.166141	3	0.203387
			4	0.319890	4	0.647927
			BIAS CORR	0.787035		
			VAR CCEFF	0.021793		0.029372
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.48		79.43

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.348595	2	0.185109
			2	0.251928	3	0.203847
			4	0.399477	4	0.650331
			BIAS CORR	0.785323		
			VAR CCEFF	0.022101		0.029490
			EFFICIENCY	98.61		99.60
		2	1	0.496410	2	0.285649
			4	0.503590	4	0.752816
			BIAS CORR	0.789863		
			VAR CCEFF	0.023221		0.029954
			EFFICIENCY	93.85		98.06
5	4	1	3	1.000000	4	0.949044
			BIAS CORR	0.886752		
			VAR CCEFF	0.032204		0.032119
			EFFICIENCY	67.67		91.45
5	3	3	1	0.375602	1	0.096302
			2	0.183575	2	0.179581
			3	0.440823	3	0.924409
			BIAS CORR	0.719925		
			VAR CCEFF	0.023836		0.039741
			EFFICIENCY	100.00		100.00
			EFF(M/N)	86.38		53.70
5	3	2	1	0.451060	2	0.243964
			3	0.548940	2	0.928568
			BIAS CORR	0.722325		
			VAR CCEFF	0.024266		0.039949
			EFFICIENCY	98.23		99.48
5	3	1	3	1.000000	3	1.127711
			BIAS CORR	0.886752		
			VAR CCEFF	0.032204		0.040955
			EFFICIENCY	74.02		97.04
5	2	2	1	0.430915	1	0.141356
			2	0.569085	2	1.279541
			BIAS CORR	0.636957		
			VAR CCEFF	0.027513		0.061376

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		38.01
5	2	1	2	1.000000	2	1.381523
				BIAS CORR		
				0.723839		
				VAR CCEFF		0.061825
				0.032393		
				EFFICIENCY		99.27
				84.94		
5	1	1	1	1.000000	1	1.914911
				BIAS CORR		
				0.522218		
				VAR CCEFF		0.132093
				0.036023		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		17.66
				57.16		
6	6	6	1	0.296045	1	0.042884
			2	0.137995	2	0.079549
			3	0.131930	3	0.116368
			4	0.133664	4	0.158124
			5	0.140412	5	0.212560
			6	0.159955	6	0.338339
				BIAS CORR		
				0.839438		
				VAR CCEFF		0.019301
				0.017094		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
6	6	5	1	0.298271	2	0.108625
			2	0.198693	3	0.116409
			4	0.200592	4	0.158333
			5	0.141289	5	0.212908
			6	0.161156	6	0.338946
				BIAS CORR		
				0.839920		
				VAR CCEFF		0.019337
				0.017236		
				EFFICIENCY		99.82
				99.18		
6	6	4	1	0.352012	2	0.161524
			3	0.284226	4	0.217162
			5	0.200915	5	0.213867
			6	0.162848	6	0.340764
				BIAS CORR		
				0.841383		
				VAR CCEFF		0.019447
				0.017444		
				EFFICIENCY		99.25
				97.99		



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
6	6	3	1	0.410901	2	0.283420
			4	0.375435	3	0.285172
			6	0.213664	6	0.345046
		BIAS CORR		0.840848		
				0.018045		0.019711
				94.73		97.92
6	6	2	1	0.501368	4	0.457119
			5	0.498632	6	0.429230
				0.796559		
		BIAS CORR		0.019793		0.020569
				86.36		93.84
6	6	1	3	1.000000	5	0.906317
				0.819161		
				0.027162		0.026313
		BIAS CORR		62.93		73.35
6	5	5	1	0.309251	1	0.051460
			2	0.143937	2	0.095256
			3	0.137309	3	0.138926
			4	0.138380	4	0.187450
			5	0.271124	5	0.559748
		BIAS CORR		0.792990		
				0.017862		0.023265
				100.00		100.00
				95.70		82.96
6	5	4	1	0.311671	2	0.130192
			2	0.207175	3	0.139023
			4	0.208095	4	0.187764
			5	0.273059	5	0.560914
				0.793128		
		BIAS CORR		0.018015		0.023316
				99.15		99.78
6	5	3	1	0.367898	2	0.193572
			3	0.295823	4	0.258283
			5	0.336279	5	0.564291
		BIAS CORR		0.794160		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.023473 99.11
6	5	2	1	0.501368	3	0.339304
			5	0.498632	5	0.654411
				BIAS CORR		
				VAR CCEFF		0.023849
				EFFICIENCY		97.55
6	5	1	3	1.000000	5	0.906317
				BIAS CORR		
				VAR CCEFF		0.026313
				EFFICIENCY		88.42
6	4	4	1	0.329837	1	0.064176
			2	0.152944	2	0.118385
			3	0.145018	3	0.171378
			4	0.372201	4	0.783813
				BIAS CORR		
				VAR CCEFF		0.029337
				EFFICIENCY		100.00
				EFF(M/N)		65.79
6	4	3	1	0.332549	2	0.162036
			2	0.219829	3	0.171584
			4	0.447622	4	0.785755
				BIAS CORR		
				VAR CCEFF		0.029416
				EFFICIENCY		99.73
6	4	2	1	0.452586	2	0.240608
			4	0.547414	4	0.877364
				BIAS CORR		
				VAR CCEFF		0.029655
				EFFICIENCY		98.92
6	4	1	3	1.000000	4	1.047841
				BIAS CORR		
				VAR CCEFF		0.030864
				EFFICIENCY		95.05

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.361963	1	0.084899
			2	0.166307	2	0.155381
			3	0.471730	3	1.041569
		BIAS CORR		0.676754		
		VAR CCEFF		0.020970		0.039719
		EFFICIENCY		100.00		100.00
		EFF(M/N)		81.52		48.59
6	3	2	1	0.427890	2	0.213295
			3	0.573110	3	1.044696
		BIAS CORR		0.679254		
		VAR CCEFF		0.021255		0.039858
		EFFICIENCY		98.66		99.65
6	3	1	3	1.000000	2	1.220761
				BIAS CORR		
				0.819161		
				VAR CCEFF		0.040478
6	2	2	3	0.027162		98.13
				EFFICIENCY		
		1	1	0.417162	1	0.124445
			2	0.582838	2	1.388458
				BIAS CORR		
6	2	1		0.599106		
				VAR CCEFF		0.061363
		1		0.024300		100.00
				EFFICIENCY		100.00
				EFF(M/N)		31.45
6	2	1	2	1.000000	2	1.478901
				BIAS CORR		
				0.676178		
				VAR CCEFF		0.061663
6	1	1		0.028193		99.51
				EFFICIENCY		
		1	1	1.000000	1	2.034896
				BIAS CORR		
				0.491426		
6	1	1		0.031900		0.132093
				VAR CCEFF		
		1		0.031900		0.132093
				EFFICIENCY		100.00
				EFF(M/N)		14.61
7	7	7	1	0.274217	1	0.033155
			2	0.121972	2	0.060732
			3	0.114029	3	0.087478
			4	0.113179	4	0.116159

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			5	0.115965	5	0.149751
			6	0.122038	6	0.194443
			7	0.138601	7	0.300165
			BIAS CORR	0.835950		
			VAR CCEFF	0.014606		0.016456
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
7	7	6	1	0.275611	2	0.083559
			2	0.122453	3	0.087464
			3	0.170020	4	0.116240
			5	0.170160	5	0.149828
			6	0.122498	6	0.194651
			7	0.139259	7	0.300501
			BIAS CORR	0.835551		
			VAR CCEFF	0.014683		0.016475
			EFFICIENCY	99.47		99.89
7	7	5	1	0.277372	2	0.121717
			2	0.173264	4	0.162278
			4	0.237775	5	0.150186
			6	0.171559	6	0.195174
			7	0.140029	7	0.301367
			BIAS CORR	0.834855		
			VAR CCEFF	0.014784		0.016525
			EFFICIENCY	98.79		99.59
7	7	4	1	0.324520	3	0.209660
			3	0.245720	5	0.206366
			5	0.250469	6	0.196281
			7	0.174291	7	0.303347
			BIAS CORR	0.832828		
			VAR CCEFF	0.014979		0.016638
			EFFICIENCY	97.53		98.91
7	7	3	1	0.376887	4	0.322371
			4	0.403665	6	0.262794
			7	0.219449	7	0.308561
			BIAS CORR	0.828151		
			VAR CCEFF	0.015583		0.016942
			EFFICIENCY	93.73		97.13

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
7	7	2	1	0.455039	5	0.479202
			5	0.544961	7	0.386174
			BIAS CORR			
			VAR CCEFF			0.017788
			EFFICIENCY			92.51
7	7	1	3	1.000000	6	0.875240
			BIAS CORR			
			VAR CCEFF			0.022501
			EFFICIENCY			73.14
7	6	6	1	0.284091	1	0.038681
			2	0.126283	2	0.070812
			3	0.117906	3	0.101747
			4	0.116839	4	0.134848
			5	0.119136	5	0.172708
			6	0.235746	6	0.494779
			BIAS CORR			
			VAR CCEFF			0.019255
			EFFICIENCY			100.00
			EFF(M/N)			85.47
7	6	5	1	0.285578	2	0.097461
			2	0.126802	3	0.101749
			3	0.175735	4	0.134967
			5	0.175106	5	0.172898
			6	0.236779	6	0.495415
			BIAS CORR			
			VAR CCEFF			0.019280
			EFFICIENCY			99.87
7	6	4	1	0.287448	2	0.141919
			2	0.179378	4	0.188612
			4	0.245325	5	0.173322
			6	0.287850	6	0.497033
			BIAS CORR			
			VAR CCEFF			0.019147
			EFFICIENCY			99.92
7	6	3	1	0.330868	3	0.244352

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
7	6	2	3	0.319331	5	0.238834
			6	0.341801	6	0.500636
			BIAS CORR	0.794230		
			VAR CCEFF	0.015652		0.019500
			EFFICIENCY	96.69		98.74
			1	0.455039	4	0.375723
			5	0.544961	6	0.583804
7	6	1	BIAS CORR	0.760335		
			VAR COEFF	0.017128		0.019913
			EFFICIENCY	88.36		96.70
			3	1.000000	6	0.875240
			BIAS CORR	0.768857		
			VAR CCEFF	0.023780		0.022501
			EFFICIENCY	63.64		85.57
7	5	5	1	0.298774	1	0.046407
			2	0.132529	2	0.084660
			3	0.123522	3	0.121532
			4	0.121716	4	0.159834
			5	0.323459	5	0.685421
			BIAS CORR	0.752225		
			VAR CCEFF	0.015922		0.023238
			EFFICIENCY	100.00		100.00
			EFF (M/N)	91.73		70.82
			1	0.300392	2	0.116663
7	5	4	2	0.133097	3	0.121565
			3	0.183802	4	0.160015
			5	0.382709	5	0.686440
			BIAS CORR	0.751392		
			VAR CCEFF	0.016012		0.023275
			EFFICIENCY	99.44		94.84
			1	0.350111	2	0.169887
			3	0.263808	4	0.224247
			5	0.306081	5	0.688957
			BIAS CORR	0.754442		
7	5	3	VAR CCEFF	0.016167		0.023371
			EFFICIENCY	98.48		99.43

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.455039	3	0.292092
			5	0.544961	5	0.771240
			BIAS CORR	0.760335		
			VAR CCEFF	0.017128		0.023588
			EFFICIENCY	92.96		98.52
7	5	1	3	1.000000	5	0.994605
			BIAS CORR	0.768857		
			VAR CCEFF	0.023780		0.024984
			EFFICIENCY	66.96		93.01
7	4	4	1	0.320062	1	0.057779
			2	0.141473	2	0.105229
			3	0.131047	3	0.149831
			4	0.407419	4	0.892064
			BIAS CORR	0.701650		
			VAR CCEFF	0.017073		0.029319
			EFFICIENCY	100.00		100.00
			EFF (M/N)	85.55		56.13
7	4	3	1	0.321982	2	0.145126
			2	0.199509	3	0.149926
			4	0.478509	4	0.893644
			BIAS CORR	0.701883		
			VAR CCEFF	0.017185		0.029376
			EFFICIENCY	99.35		99.81
7	4	2	1	0.426205	2	0.210952
			4	0.573795	4	0.476243
			BIAS CORR	0.707474		
			VAR CCEFF	0.017660		0.029522
			EFFICIENCY	96.68		99.31
7	4	1	3	1.000000	4	1.128371
			BIAS CORR	0.768857		
			VAR CCEFF	0.023780		0.030300
			EFFICIENCY	71.80		96.76
7	3	3	1	0.352455	1	0.076369
			2	0.154433	2	0.138029

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			3	0.493112	3	1.139529
			BIAS CORR	0.642362		
			VAR CCEFF	0.018839		0.039707
			EFFICIENCY	100.00		100.00
			EFF(M/N)	77.51		41.45
7	3	2	1	0.410759	2	0.190870
			3	0.589241	3	1.141973
			BIAS CORR	0.644789		
			VAR CCEFF	0.019048		0.039807
			EFFICIENCY	98.90		99.75
7	3	1	3	1.000000	3	1.300632
			BIAS CORR	0.768857		
			VAR CCEFF	0.023780		0.040227
			EFFICIENCY	79.22		98.71
7	2	2	1	0.407473	1	0.111832
			2	0.592527	2	1.483002
			BIAS CORR	0.568901		
			VAR CCEFF	0.021887		0.061356
			EFFICIENCY	100.00		100.00
7	2	1				26.82
			EFF(M/N)	66.73		
			2	1.000000	2	1.564686
			BIAS CORR	0.639106		
			VAR CCEFF	0.025149		0.061571
7	1	1				99.65
			EFFICIENCY	87.03		
			1	1.000000	1	2.142189
			BIAS CORR	0.466912		
			VAR CCEFF	0.028785		0.132093
8	8	8				100.00
			EFFICIENCY	50.74		12.46
			1	0.257170	1	0.026543
			2	0.110171	2	0.048172
			3	0.101151	3	0.068641
			4	0.098835	4	0.089863
			5	0.094661	5	0.113331
			6	0.102606	6	0.141365



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
8	8	7	7	0.108040	7	0.179177
			8	0.122365	8	0.270257
			BIAS CORR	0.833018		
			VAR COEFF	0.012745		0.014341
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			1	0.258073	2	0.066658
			2	0.110451	3	0.068614
			3	0.148201	4	0.089898
			5	0.149279	5	0.113386
8	8	6	6	0.102810	6	0.141466
			7	0.108412	7	0.179304
			8	0.122773	8	0.270460
			BIAS CORR	0.833109		
			VAR COEFF	0.012791		0.014352
			EFFICIENCY	99.64		99.92
			1	0.259139	2	0.095829
			2	0.154165	4	0.126991
			4	0.205497	5	0.113459
			6	0.149193	6	0.141722
8	8	5	7	0.108701	7	0.179572
			8	0.123306	8	0.270934
			BIAS CORR	0.833348		
			VAR COEFF	0.012849		0.014377
			EFFICIENCY	99.19		99.75
			1	0.299560	2	0.163604
			3	0.216271	5	0.158775
			5	0.208668	6	0.142031
			7	0.151400	7	0.180304
			8	0.124101	8	0.271975
8	8	4	BIAS CORR	0.834433		
			VAR COEFF	0.012949		0.014435
			EFFICIENCY	98.42		99.35
			1	0.304034	2	0.164740
			3	0.268305	5	0.239583
			6	0.269132	7	0.239211
			8	0.158528	8	0.274025

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
8	8	3		BIAS CORR		
				VAR CCEFF		0.014556
				EFFICIENCY		98.52
			1	0.351141	4	0.327640
			4	0.347310	7	0.292862
			7	0.301549	8	0.280010
				BIAS CORR		
				VAR CCEFF		0.014892
				EFFICIENCY		96.30
8	8	2	1	0.457988	5	0.489658
			6	0.542112	8	0.396059
				BIAS CORR		
				VAR CCEFF		0.015709
				EFFICIENCY		91.29
			4	1.000000	7	0.851300
				BIAS CORR		
				VAR CCEFF		0.019802
				EFFICIENCY		72.42
8	7	7	1	0.264892	1	0.030343
			2	0.113420	2	0.054994
			3	0.104128	3	0.078432
			4	0.101554	4	0.102271
			5	0.102328	5	0.128954
			6	0.104847	6	0.159792
			7	0.208830	7	0.444641
				BIAS CORR		
				VAR CCEFF		0.016421
				EFFICIENCY		100.00
				EFF(M/N)		87.33
			1	0.265847	2	0.076134
			2	0.113718	3	0.078409
			3	0.152487	4	0.102322
			5	0.153325	5	0.129031
			6	0.105064	6	0.159922
			7	0.209559	7	0.445013
				BIAS CORR		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.016436 99.91
8	7	5	1	0.266977	2	0.109496
			2	0.158743	4	0.144746
			4	0.211263	5	0.129146
			6	0.152709	6	0.160252
			7	0.210307	7	0.445852
				BIAS CORR		
				VAR CCEFF		0.016469
				EFFICIENCY		99.71
8	7	4	1	0.308649	3	0.186882
			3	0.222634	5	0.180834
			5	0.214086	6	0.160685
			7	0.254631	7	0.447853
				BIAS CORR		
				VAR CCEFF		0.016544
				EFFICIENCY		99.26
8	7	3	1	0.351141	3	0.188367
			4	0.347310	5	0.272535
			7	0.301549	7	0.516846
				BIAS CORR		
				VAR CCEFF		0.016699
				EFFICIENCY		98.34
8	7	2	1	0.457888	4	0.374705
			6	0.542112	7	0.584971
				BIAS CORR		
				VAR CCEFF		0.017136
				EFFICIENCY		95.83
8	7	1	4	1.000000	7	0.851300
				BIAS CORR		
				VAR CCEFF		0.019802
				EFFICIENCY		82.93
8	6	6	1	0.275959	1	0.035370
			2	0.118114	2	0.064235
			3	0.109092	3	0.090876

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			4	0.105527	4	0.119080
			5	0.105608	5	0.148597
			6	0.286698	6	0.611839
		BIAS CORR		0.761024		
		VAR CCEFF		0.013680		0.019234
		EFFICIENCY		100.00		100.00
		EFF(M/N)		93.16		74.56
8	6	5	1	0.276991	2	0.088890
			2	0.118441	3	0.090861
			3	0.158364	4	0.115156
			5	0.158620	5	0.148705
			6	0.287584	6	0.612433
		BIAS CORR		0.760864		
		VAR CCEFF		0.013733		0.019254
		EFFICIENCY		99.61		99.90
8	6	4	1	0.278199	2	0.127590
			2	0.165207	4	0.168369
			4	0.219152	5	0.148821
			6	0.337442	6	0.613803
		BIAS CORR		0.760826		
		VAR CCEFF		0.013799		0.019299
		EFFICIENCY		99.14		99.67
8	6	3	1	0.323825	3	0.217588
			3	0.284784	5	0.209242
			6	0.391391	6	0.616695
		BIAS CORR		0.761709		
		VAR CCEFF		0.014010		0.019401
		EFFICIENCY		97.65		99.14
8	6	2	1	0.457888	4	0.328870
			6	0.542112	6	0.693417
		BIAS CORR		0.771574		
		VAR CCEFF		0.015167		0.019656
		EFFICIENCY		90.20		97.86
8	6	1	4	1.000000	6	0.955824
		BIAS CORR		0.834922		
		VAR CCEFF		0.020909		0.021137

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				65.43		91.00
			EFFICIENCY			
8	5	5	1	0.291311	1	0.042455
			2	0.124301	2	0.076515
			3	0.113828	3	0.108951
			4	0.110225	4	0.140821
			5	0.360334	5	0.786541
			BIAS CORR	0.718639		
			VAR CCEFF	0.014446		0.023224
			EFFICIENCY	100.00		100.00
			EFF(M/N)	88.22		61.75
8	5	4	1	0.292439	2	0.106129
			2	0.124663	3	0.108954
			3	0.166364	4	0.140938
			5	0.416535	5	0.787415
			BIAS CORR	0.718335		
			VAR CCEFF	0.014504		0.023252
			EFFICIENCY	99.60		99.88
8	5	3	1	0.337951	2	0.152602
			3	0.242368	4	0.200035
			5	0.419681	5	0.789339
			BIAS CORR	0.721101		
			VAR CCEFF	0.014624		0.023317
			EFFICIENCY	98.79		99.60
8	5	2	1	0.426913	2	0.259974
			5	0.573087	5	0.864408
			BIAS CORR	0.727907		
			VAR CCEFF	0.015296		0.023461
			EFFICIENCY	94.45		98.99
8	5	1	4	1.000000	5	1.066615
			BIAS CORR	0.834922		
			VAR CCEFF	0.020909		0.024370
			EFFICIENCY	69.09		95.30
8	4	4	1	0.312931	1	0.052755
			2	0.133159	2	0.095268
			3	0.121060	3	0.134057

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
8	4	3	4	0.432850	4	0.982923
			BIAS CORR	0.670499		
			VAR CCEFF	0.015535		0.029308
			EFFICIENCY	100.00		100.00
			EFF(M/N)	82.04		48.93
			1	0.314413	2	0.132102
			2	0.185365	2	0.134096
			4	0.500222	4	0.984231
			BIAS CORR	0.670929		
			VAR CCEFF	0.015615		0.029351
			EFFICIENCY	99.49		99.85
8	4	2	1	0.408377	2	0.189409
			4	0.591623	4	1.059544
			BIAS CORR	0.676295		
			VAR CCEFF	0.015973		0.029449
			EFFICIENCY	97.26		99.52
			1	1.000000	4	1.197717
			BIAS CORR	0.834922		
			VAR CCEFF	0.020909		0.029995
			EFFICIENCY	74.30		97.71
			1	0.345442	1	0.069707
8	3	3	2	0.145754	2	0.124851
			3	0.508804	3	1.224372
			BIAS CORR	0.614039		
			VAR CCEFF	0.017180		0.039699
			EFFICIENCY	100.00		100.00
			EFF(M/N)	74.18		36.12
			1	0.399190	2	0.173593
			3	0.600810	3	1.226141
			BIAS CORR	0.616355		
			VAR CCEFF	0.017343		0.039774
			EFFICIENCY	99.06		99.81
8	3	1	3	1.000000	3	1.371333
			BIAS CORR	0.729719		
			VAR CCEFF	0.021312		0.040078

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		80.61
						99.05
8	2	2	1	0.400276	1	0.101998
			2	0.549724	2	1.567079
				BIAS CORR		
				0.543992		
				VAR COEFF		0.061351
				0.019996		
				EFFICIENCY		100.00
				100.00		
				EFF (M/N)		23.37
				63.74		
4	2	1	2	1.000000	2	1.641850
				BIAS CORR		
				0.609069		
				VAR COEFF		0.061512
				0.027819		
				EFFICIENCY		99.74
				87.63		
8	1	1	1	1.000000	1	2.239693
				BIAS CORR		
				0.446490		
				VAR COEFF		0.132093
				0.026333		
				EFFICIENCY		100.00
				100.00		
				EFF (M/N)		10.26
				48.40		
9	9	9	1	0.243387	1	0.021821
			2	0.101096	2	0.039319
			3	0.091436	3	0.055593
			4	0.088199	4	0.072046
			5	0.087901	5	0.089663
			6	0.089237	6	0.105487
			7	0.092154	7	0.133501
			8	0.096995	8	0.166207
			9	0.109595	9	0.246142
				BIAS CORR		
				0.830503		
				VAR COEFF		0.012706
				0.011301		
				EFFICIENCY		100.00
				100.00		
				EFF (M/N)		100.00
				100.00		
9	9	8	1	0.243984	2	0.054650
			2	0.101399	3	0.055563
			3	0.091476	4	0.072066
			4	0.131847	5	0.089676
			6	0.131936	6	0.104552
			7	0.092182	7	0.133556
			8	0.097283	8	0.166294

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
4	4	1	1	0.109062	5	0.246270
			2	0.010102		
			3	0.011130		0.012711
			4	47.74		47.44
			5	0.244751	2	0.017855
			6	0.101419	3	0.102480
			7	0.137787	4	0.089624
			8	0.100814	5	0.104788
4	4	2	1	0.137787	1	0.137787
			2	0.097290	2	0.147515
			3	0.110185	3	0.147515
			4	0.010102	4	0.246270
			5	0.011130		
			6	47.74		47.44
			7	0.244751		
			8	0.101419		0.012711
4	4	3	1	0.109062	1	0.017855
			2	0.010102	2	0.102480
			3	0.011130	3	0.104788
			4	47.74	4	0.147515
			5	0.244751	5	0.147515
			6	0.101419		
			7	0.137787		0.246270
			8	0.100814		47.44
4	4	4	1	0.244751	1	0.102480
			2	0.101419	2	0.104788
			3	0.137787	3	0.147515
			4	0.100814	4	0.147515
			5	0.109062	5	0.246270
			6	0.010102		
			7	0.011130		0.012711
			8	47.74		47.44
4	4	5	1	0.109062	1	0.102480
			2	0.010102	2	0.104788
			3	0.011130	3	0.147515
			4	47.74	4	0.147515
			5	0.244751	5	0.246270
			6	0.101419		
			7	0.137787		0.012711
			8	0.100814		47.44
4	4	6	1	0.109062	1	0.102480
			2	0.010102	2	0.104788
			3	0.011130	3	0.147515
			4	47.74	4	0.147515
			5	0.244751	5	0.246270
			6	0.101419		
			7	0.137787		0.012711
			8	0.100814		47.44
4	4	7	1	0.109062	1	0.102480
			2	0.010102	2	0.104788
			3	0.011130	3	0.147515
			4	47.74	4	0.147515
			5	0.244751	5	0.246270
			6	0.101419		
			7	0.137787		0.012711
			8	0.100814		47.44
4	4	8	1	0.109062	1	0.102480
			2	0.010102	2	0.104788
			3	0.011130	3	0.147515
			4	47.74	4	0.147515
			5	0.244751	5	0.246270
			6	0.101419		
			7	0.137787		0.012711
			8	0.100814		47.44



TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORGEN STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		EFFICIENCY
5	5	3	1	0.336710	4	0.258108
			2	0.363777	7	0.363066
			3	0.309104	9	0.309689
			4	0.197521		
			5	0.017771		0.017776
			6	97.41		96.77
5	4	2	1	0.420107	1	0.507441
			2	0.571458	4	0.363731
			3	0.743481		
			4	0.618410		0.018000
			5	81.01		90.71
			6			
5	3	1	1	1.000000	1	0.037107
			2	0.794100		
			3	0.610798		0.017706
			4	60.17		71.44
			5			
			6			
5	2	0	1	0.749770	1	0.024541
			2	0.103607	7	0.044768
			3	0.041665	9	0.047731
			4	0.040403	4	0.001710
			5	0.024837	1	0.101731
			6	0.041754	1	0.177737
			7	0.043193	7	0.140599
			8	0.167631	1	0.054610
			9	0.006961		
			10	0.011991		0.014110
			11	100.00		100.00
			12	97.80		98.77
5	1	0	1	0.740785	7	0.041917
			2	0.103770	9	0.047737
			3	0.041710	4	0.001731
			4	0.118100	1	0.100777
			5	0.118787	7	0.177737
			6	0.042675	9	0.140667
			7	0.100116	1	0.054636
			8	0.000764		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 5 TO 10)

SHARP PAMMILP = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAN CLEFT EFFICIENCY		0.014322 99.94
			1	0.751634	1	0.007940
			2	0.104043	4	0.115470
			3	0.134115	6	0.100727
			4	0.105061	8	0.121171
			5	0.134322	9	0.140711
			6	0.100415	0	0.405150
				MEAN CLEFT VAN CLEFT EFFICIENCY		0.014340 99.91
			1	0.752039	1	0.007704
			2	0.134071	4	0.140110
			4	0.110011	6	0.171074
			6	0.107471	8	0.140003
			8	0.770515	0	0.406406
				MEAN CLEFT VAN CLEFT EFFICIENCY		0.014319 99.95
			1	0.731107	1	0.145204
			2	0.701071	4	0.501074
			4	0.710064	6	0.704701
			6	0.700000	8	0.501074
				MEAN CLEFT VAN CLEFT EFFICIENCY		0.014444 99.07
			1	0.731110	4	0.725111
			4	0.701077	6	0.744070
			8	0.700006	0	0.511070
				MEAN CLEFT VAN CLEFT EFFICIENCY		0.014607 98.01
			1	0.470107	1	0.400106
			4	0.471070	0	0.430751
				MEAN CLEFT VAN CLEFT EFFICIENCY		0.014010

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		95.34
				85.17		
4	8	1	4	1.000000	2	0.832102
				BIAS CORR		
				0.794160		
				VAN COEFF		0.011726
				0.018798		80.48
				EFFICIENCY		
				61.46		
4	7	7	1	0.798351	1	0.078699
			2	0.707111	2	0.090304
			3	0.771277	3	0.071866
			4	0.072949	4	0.091399
			5	0.093034	5	0.114987
			6	0.093516	6	0.138414
			7	0.291975	7	0.954319
				BIAS CORR		
				0.761357		
				VAN COEFF		0.011406
				0.011957		
				EFFICIENCY		100.00
				100.00		
				EFFICIENCY		77.45
				94.70		
4	7	6	1	0.799074	1	0.070084
			2	0.707470	2	0.071817
			3	0.097119	3	0.091810
			4	0.134718	4	0.110016
			5	0.136745	5	0.130917
			6	0.708166	6	0.994674
				BIAS CORR		
				0.781079		
				VAN COEFF		0.011417
				0.017010		
				EFFICIENCY		49.41
				79.71		
4	7	5	1	0.797881	1	0.100087
			2	0.707519	2	0.131001
			3	0.140780	3	0.114966
			4	0.140732	4	0.130818
			5	0.301149	5	0.195358
				BIAS CORR		
				0.786578		
				VAN COEFF		0.011441
				0.017068		
				EFFICIENCY		49.78
				99.41		
4	7	4	1	0.798744	1	0.100304
			2	0.706946	2	0.130707
			3	0.141010	3	0.144874

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
4	7	3	1	0.303069	1	0.956787
			2	0.762374	2	0.016491
			3	0.012147	3	99.48
			4	90.76	4	
			5	0.335598	5	0.170968
			6	0.314008	6	0.236438
			7	0.350884	7	0.622019
			8	0.773846		
			9	0.012397		0.016974
			10	96.87		98.48
4	7	2	1	0.428307	4	0.323861
			2	0.511748	5	0.487444
			3	0.743461		
			4	0.013610		0.016843
			5	88.19		97.60
			6	1.000000	7	0.426483
			7	0.774100		
			8	0.018798		0.016474
			9	63.87		87.65
			10			
4	6	6	1	0.764781	1	0.037646
			2	0.112107	2	0.054274
			3	0.100736	3	0.087034
			4	0.097491	4	0.107980
			5	0.094745	5	0.131951
			6	0.123847	6	0.166491
			7	0.710711		
			8	0.012941		0.014271
			9	100.00		100.00
			10	90.11		86.19
4	6	5	1	0.770668	7	0.082187
			2	0.117469	8	0.087034
			3	0.100707	9	0.107938
			4	0.145217	10	0.131633
			5	0.170749		
			6	0.730453		0.167444
			7	0.012916		0.014218
			8			
			9			
			10			

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.72
4	6	4	1	0.271610	2	0.116903
			2	0.159014	4	0.191219
			4	0.201117	6	0.151622
			6	0.372260	8	0.700640
				BIAS CORR		
				0.711219		
				VAN CLEFF		0.019270
				EFFICIENCY		99.76
4	6	3	1	0.313564	2	0.110001
			3	0.261464	4	0.210722
			6	0.424767	6	0.774902
				BIAS CORR		
				0.712708		
				VAN CLEFF		0.019316
				EFFICIENCY		99.42
4	6	2	1	0.420107	4	0.271211
			6	0.571448	6	0.781209
				BIAS CORR		
				0.743461		
				VAN CLEFF		0.019920
				EFFICIENCY		98.48
4	6	1	4	1.000000	6	1.021636
				BIAS CORR		
				0.794100		
				VAN CLEFF		0.020474
				EFFICIENCY		94.80
4	5	5	1	0.280707	1	0.034289
			2	0.110030	2	0.064726
			3	0.106486	3	0.094490
			4	0.101710	4	0.121574
			5	0.107066	5	0.071702
				BIAS CORR		
				0.040318		
				VAN CLEFF		0.021216
				EFFICIENCY		100.00
				EFFIM/4)		94.71
4	6	4	1	0.286668	2	0.041870
			2	0.114268	3	0.094611
			3	0.194761	4	0.176662

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
4	3	1	5	0.441203	2	0.872649
			BIAS CORR	0.690253		
			VAN COEFF	0.013317		0.023237
			EFFICIENCY	99.67		99.61
4	3	2	1	0.129018	2	0.136219
			3	0.225817	4	0.181714
			5	0.444165	5	0.874156
			BIAS CORR	0.692796		
			VAN COEFF	0.013413		0.023284
4	3	2	EFFICIENCY	98.98		99.71
			1	0.407756	3	0.231081
			5	0.592244	5	0.443061
			BIAS CORR	0.692748		
4	3	2	VAN COEFF	0.013920		0.023387
			EFFICIENCY	95.37		99.77
			4	1.000000	5	1.128133
			BIAS CORR	0.796100		
4	3	1	VAN COEFF	0.018748		0.024030
			EFFICIENCY	70.62		96.61
			1	0.307488	3	0.048476
			2	0.174861	2	0.087441
4	3	4	3	0.113537	3	0.171861
			4	0.652112	4	1.061730
			BIAS CORR	0.644224		
			VAN COEFF	0.014304		0.024302
			EFFICIENCY	100.00		100.00
4	3	4	EFFICIENCY	79.01		93.36
			1	0.308697	2	0.171716
			2	0.176911	3	0.171828
			4	0.517382	4	1.062040
4	3	1	BIAS CORR	0.644739		
			VAN COEFF	0.014365		0.024335
			EFFICIENCY	99.57		99.67
			1	0.179492	2	0.172811
4	3	2	4	0.604948	4	1.132161

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.649839		
			VAR COEFF	0.014690		0.029406
			EFFICIENCY	97.64		99.69
4	4	1	4	1.000000	4	1.299287
			BIAS CORR	0.794100		
			VAR COEFF	0.018798		0.029410
			EFFICIENCY	76.09		96.70
4	3	3	1	0.340034	1	0.064336
			2	0.134127	2	0.114431
			3	0.920819	3	1.299631
			BIAS CORR	0.990131		
			VAR COEFF	0.019849		0.039694
			EFFICIENCY	100.00		100.00
			EFF (M/N)	71.32		92.01
4	3	2	1	0.390473	2	0.194789
			3	0.604527	1	1.301258
			BIAS CORR	0.977334		
			VAR COEFF	0.019978		0.034753
			EFFICIENCY	99.17		99.69
4	3	1	3	1.000000	3	1.439181
			BIAS CORR	0.646716		
			VAR COEFF	0.014417		0.034583
			EFFICIENCY	81.63		99.29
4	2	2	1	0.394718	1	0.094076
			2	0.605282	2	1.643146
			BIAS CORR	0.977443		
			VAR COEFF	0.018467		0.061348
			EFFICIENCY	100.00		100.00
			EFF (M/N)	61.19		70.71
4	2	1	2	1.000000	2	1.712301
			BIAS CORR	0.984010		
			VAR COEFF	0.020467		0.061474
			EFFICIENCY	88.08		99.80
4	1	1	1	1.000000	1	2.324379

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.427300	
				VAR CCEFF	0.024345	0.137053
				EFFICIENCY	100.00	100.00
				EFF(M/N)	46.47	9.62
10	10	10	1	0.231243	1	0.018317
			2	0.043883	2	0.032820
			3	0.083836	3	0.046114
			4	0.074950	4	0.054396
			5	0.078291	5	0.073129
			6	0.072331	6	0.088202
			7	0.081005	7	0.105329
			8	0.083676	8	0.126302
			9	0.088063	9	0.155071
			10	0.094222	10	0.226249
			BIAS CORR	0.828307		
			VAR CCEFF	0.010149		0.011406
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
10	10	4	1	0.232343	2	0.045780
			2	0.044138	3	0.046084
			3	0.083706	4	0.054375
			4	0.118324	5	0.073112
			6	0.114027	6	0.088267
			7	0.080619	7	0.105331
			8	0.086247	8	0.126361
			9	0.088018	9	0.155124
			10	0.094496	10	0.226136
						BIAS CORR
			VAR CCEFF	0.010165		0.011410
			EFFICIENCY	99.81		99.96
10	10	2	1	0.232225	2	0.064776
			2	0.043331	4	0.083118
			3	0.126727	5	0.072441
			4	0.111294	6	0.088648
			7	0.112356	7	0.105051
			8	0.083186	8	0.127603
			9	0.088710	9	0.155175
			10	0.094611	10	0.226310



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.828349		
			VAR COEFF	0.010191	0.011419	
			EFFICIENCY	99.59	99.88	
10	10	7	1	0.233443	2	0.064935
			2	0.129277	4	0.120390
			4	0.165740	6	0.125273
			6	0.162939	7	0.104706
			8	0.120337	8	0.127225
			9	0.086195	9	0.155204
			10	0.100009	10	0.226871
			BIAS CORR	0.828529		
			VAR COEFF	0.010221	0.011436	
			EFFICIENCY	99.79	99.74	
10	10	6	1	0.266741	2	0.109909
			3	0.179421	5	0.149364
			5	0.162845	7	0.148084
			7	0.168641	8	0.126081
			9	0.122001	9	0.156140
			10	0.100952	10	0.227317
			BIAS CORR	0.829460		
			VAR COEFF	0.010277	0.011464	
			EFFICIENCY	98.73	99.47	
10	10	5	1	0.269336	3	0.150675
			3	0.216572	6	0.219713
			6	0.206972	8	0.174252
			8	0.180147	9	0.157435
			10	0.126953	10	0.225604
			BIAS CORR	0.826497		
			VAR COEFF	0.010378	0.011528	
			EFFICIENCY	97.79	98.55	
10	10	4	1	0.302764	4	0.206528
			4	0.271839	7	0.260456
			7	0.274796	9	0.207991
			10	0.191142	10	0.230556
			BIAS CORR	0.822403		
			VAR COEFF	0.010604	0.011634	
			EFFICIENCY	95.70	98.03	

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.339214	5	0.287941
			5	0.383995	8	0.325868
			9	0.276790	10	0.281746
			BIAS CORR	0.804024		
			VAN COEFF	0.011034		0.011902
			EFFICIENCY	91.97		95.83
		2	1	0.430068	7	0.520640
			7	0.569232	10	0.336500
			BIAS CORR	0.755696		
			VAN COEFF	0.012338		0.012641
			EFFICIENCY	82.25		84.94
10	10	1	5	1.000000	9	0.816243
			BIAS CORR	0.844601		
			VAN COEFF	0.016992		0.016220
			EFFICIENCY	54.73		70.32
10	9	9	1	0.237113	1	0.020390
			2	0.695932	2	0.030308
			3	0.085779	3	0.051464
			4	0.081499	4	0.065329
			5	0.080967	5	0.081059
			6	0.080679	6	0.097047
			7	0.082686	7	0.116821
			8	0.084898	8	0.138867
			9	0.170449	9	0.371035
			BIAS CORR	0.801990		
			VAN COEFF	0.016979		0.012689
			EFFICIENCY	100.00		100.00
			EFF (P/N)	97.62		84.92
10	9	8	1	0.237532	2	0.050797
			2	0.096239	3	0.051434
			3	0.085650	4	0.065352
			4	0.120940	5	0.081844
			6	0.121372	6	0.097121
			7	0.082294	7	0.116935
			8	0.085486	8	0.138938
			9	0.170584	9	0.371908

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
10	4	7		BIAS CORR		
				VAR COEFF		0.012690
				EFFICIENCY		99.96
			1	0.238130	2	0.072005
			2	0.095989	4	0.034114
			3	0.123374	5	0.081661
			5	0.165027	6	0.097556
			7	0.121697	7	0.116533
			8	0.084403	8	0.134286
			9	0.171385	9	0.372236
				BIAS CORR		
				VAR COEFF		0.012701
				EFFICIENCY		99.87
10	4	6	1	0.238606	2	0.072083
			2	0.132168	4	0.133604
			4	0.164373	6	0.138983
			6	0.166736	7	0.116167
			8	0.122334	8	0.134738
			9	0.171200	9	0.372646
				BIAS CORR		
				VAR COEFF		0.012722
				EFFICIENCY		99.71
			1	0.272726	2	0.122064
			3	0.183374	5	0.168837
			5	0.166764	7	0.163456
			7	0.171733	8	0.138691
			9	0.209757	9	0.374143
				BIAS CORR		
				VAR COEFF		0.012756
				EFFICIENCY		99.41
10	4	4	1	0.276221	2	0.156454
			3	0.222171	6	0.235068
			6	0.262835	8	0.142261
			9	0.238823	9	0.379055
				BIAS CORR		
				VAR COEFF		0.012834
				EFFICIENCY		98.84

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
10	9	3	1	0.339214	4	0.229535
			5	0.383995	7	0.289045
			9	0.276790	9	0.434733
			BIAS CORR	0.804024		
			VAR CCEFF	0.011034		0.012965
			EFFICIENCY	94.03		97.84
10	9	2	1	0.430068	6	0.423761
			7	0.564932	9	0.495498
			BIAS CORR	0.755696		
			VAR CCEFF	0.012338		0.013398
			EFFICIENCY	84.09		94.68
10	9	1	5	1.000000	9	0.816243
			BIAS CORR	0.844601		
			VAR CCEFF	0.016492		0.016220
			EFFICIENCY	61.06		78.21
10	8	8	1	0.244161	1	0.022453
			2	0.098937	2	0.041350
			3	0.087689	3	0.056457
			4	0.084901	4	0.075455
			5	0.081946	5	0.089847
			6	0.083652	6	0.110752
			7	0.084155	7	0.129311
			8	0.234560	8	0.507703
			BIAS CORR	0.772162		
			VAR CCEFF	0.010685		0.014301
			EFFICIENCY	100.00		100.00
			EFF (M/N)	94.48		79.75
10	8	7	1	0.244593	2	0.057525
			2	0.099250	3	0.056476
			3	0.087560	4	0.075989
			4	0.124721	5	0.088833
			6	0.124841	6	0.110844
			7	0.083759	7	0.129330
			8	0.235276	8	0.508153
			BIAS CORR	0.772087		
			VAR CCEFF	0.010706		0.014308

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				99.80		99.55
				EFFICIENCY		
10	8	6	1	0.245135	2	0.080798
			2	0.099688	4	0.107552
			3	0.087200	5	0.088637
			4	0.125420	6	0.111329
			6	0.170009	7	0.129007
			8	0.272554	8	0.508805
				BIAS CORR		
				0.771183		
				VAR CCEFF		0.014321
				0.010732		
				EFFICIENCY		99.86
10	8	5	1	0.245794	2	0.080894
			2	0.135992	4	0.150436
			4	0.174352	6	0.155881
			6	0.170521	7	0.128625
			8	0.273341	8	0.509954
				BIAS CORR		
				0.772074		
				VAR CCEFF		0.014346
				0.010764		
				EFFICIENCY		99.69
10	8	4	1	0.282025	2	0.137420
			3	0.226459	5	0.185557
			6	0.215784	7	0.183241
			8	0.275733	8	0.510214
				BIAS CORR		
				0.774220		
				VAR CCEFF		0.014393
				0.010867		
				EFFICIENCY		99.36
10	8	3	1	0.316527	4	0.205603
			4	0.329006	6	0.226512
			8	0.354467	8	0.571653
				BIAS CORR		
				0.774266		
				VAR CCEFF		0.014486
				0.011116		
				EFFICIENCY		98.72
10	8	2	1	0.430068	5	0.354215
			7	0.569932	8	0.632302
				BIAS CORR		
				0.755696		
				VAR CCEFF		0.014753
				0.012338		
				EFFICIENCY		96.93
				86.60		

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
10	8	1	5	1.000000	8	0.902218
			BIAS CORR	0.844601		
			VAR CCEFF	0.016992		0.016406
			EFFICIENCY	62.88		87.17
10	7	7	1	0.253447	1	0.026303
			2	0.102101	2	0.046016
			3	0.072301	3	0.067821
			4	0.085644	4	0.081176
			5	0.086755	5	0.105947
			6	0.085055	6	0.122761
			7	0.294699	7	0.644278
			BIAS CORR	0.740142		
			VAR CCEFF	0.011090		0.016306
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.51		69.56
10	7	6	1	0.254011	2	0.064637
			2	0.102077	3	0.067791
			3	0.092931	4	0.081214
			4	0.085247	5	0.105940
			5	0.130377	6	0.122872
			7	0.335357	7	0.644582
			BIAS CORR	0.739648		
			VAR CCEFF	0.011113		0.016405
			EFFICIENCY	99.79		99.94
10	7	5	1	0.254572	2	0.092616
			2	0.102182	4	0.119152
			3	0.131837	5	0.105732
			5	0.175259	6	0.123474
			7	0.336150	7	0.644989
			BIAS CORR	0.739873		
			VAR CCEFF	0.011138		0.016425
			EFFICIENCY	99.57		99.83
10	7	4	1	0.290590	2	0.092761
			3	0.145160	4	0.170360
			5	0.176153	6	0.176675
			7	0.330097	7	0.645923

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR		
				VAR COEFF		0.016460
				EFFICIENCY		99.61
			1	0.742433	3	0.156990
			4	0.290910	5	0.211701
			7	0.384499	7	0.706784
				BIAS CORR		
				VAR CCEFF		0.016510
				EFFICIENCY		99.31
10	7	2	1	0.430068	4	0.292481
			7	0.569932	7	0.767478
				BIAS CORR		
				VAR CCEFF		0.016701
				EFFICIENCY		98.18
			5	1.000000	7	0.986959
				BIAS CORR		
				VAR CCEFF		0.017764
				EFFICIENCY		92.30
10	6	6	1	0.265282	1	0.030296
			2	0.107625	2	0.055567
			3	0.094483	3	0.074087
			4	0.091770	4	0.100159
			5	0.088479	5	0.118293
			6	0.352361	6	0.787776
				BIAS CORR		
				VAR CCEFF		0.019216
				EFFICIENCY		100.00
				EFF(M/N)		59.35
10	6	5	1	0.265791	2	0.077022
			2	0.107978	3	0.074056
			3	0.094361	4	0.100214
			4	0.134781	5	0.118293
			6	0.397089	6	0.788278
				BIAS CORR		
				VAR CCEFF		0.019228
				EFFICIENCY		99.94

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	0.266569	2	0.107597
			2	0.147299	4	0.141673
			4	0.187773	5	0.118074
			6	0.398359	6	0.789394
			BIAS CORR	0.705551		
			VAR CCEFF	0.011679		0.019251
			EFFICIENCY	99.47		99.82
10	6	3	1	0.306032	2	0.107784
			3	0.244769	4	0.148504
			6	0.449199	6	0.645892
			BIAS CORR	0.707258		
			VAR CCEFF	0.011799		0.019255
			EFFICIENCY	98.46		99.59
10	6	2	1	0.408033	2	0.232526
			6	0.591967	6	0.910522
			BIAS CORR	0.718053		
			VAR CCEFF	0.012439		0.019435
			EFFICIENCY	93.39		98.87
10	6	1	5	1.000000	6	1.078402
			BIAS CORR	0.844601		
			VAR CCEFF	0.016992		0.020132
			EFFICIENCY	68.37		95.45
10	5	5	1	0.291350	1	0.036719
			2	0.113029	2	0.064328
			3	0.101292	3	0.092296
			4	0.095051	4	0.115221
			5	0.409278	5	0.946220
			BIAS CORR	0.665980		
			VAR CCEFF	0.012319		0.023210
			EFFICIENCY	100.00		100.00
			EFF(M/N)	82.38		49.14
10	5	4	1	0.282048	2	0.090341
			2	0.113174	3	0.092273
			3	0.144707	4	0.115259
			5	0.460071	5	0.946858



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
10	5	3		BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
			1	0.666037		
				0.012350		0.023228
				99.75		99.92
			2	0.322142		0.128474
			3	0.214963	4	0.167002
10	5	2	5	0.462890	5	0.948048
				BIAS CORR		
				0.668400		
				VAR CCEFF		0.023263
				0.012430		99.77
				EFFICIENCY		
				99.11		
			1	0.393770	2	0.217390
			5	0.606230	5	1.011672
10	5	1		BIAS CORR		
				0.675234		
				VAR CCEFF		0.023340
				0.012832		99.44
				EFFICIENCY		
				96.00		
			5	1.000000	5	1.183992
				0.844601		
				0.016992		0.023821
10	4	4		EFFICIENCY		97.44
				72.50		
			1	0.303189	1	0.045277
			2	0.121936	2	0.081131
			3	0.107651	3	0.112051
			4	0.467224	4	1.131682
				BIAS CORR		
				0.621637		
				VAR CCEFF		0.029257
10	4	3		0.013292		100.00
				EFFICIENCY		100.00
				EFF(M/N)		38.93
				76.35		
			1	0.304213	2	0.113227
			2	0.166866	3	0.112038
			4	0.528920	4	1.132624
				BIAS CORR		
				0.622185		
10	4	2		VAR CCEFF		0.029324
				0.013341		99.71
				EFFICIENCY		
				99.63		
			1	0.385622	2	0.159575
			4	0.614378	4	1.196971
				BIAS CORR		
				0.627028		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.029377 99.73
10	4	1	4	1.000000 0.760433 0.017169 77.43	4	1.315060 0.029689 98.68
10	3	3	1	0.335783	1	0.059858
			2	0.133899	2	0.105942
			3	0.530318	3	1.367549
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.039691 100.00 28.74
10	3	2	1	0.383662	2	0.148440
			3	0.616338	3	1.368916
				BIAS CORR VAR CCEFF EFFICIENCY		0.039738 99.88
10	3	1	3	1.000000 0.669495 0.017892 82.40	3	1.493664 0.039918 99.43
10	2	2	1	0.390297	1	0.087533
			2	0.609703	2	1.712857
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.061346 100.00 18.59
10	2	1	2	1.000000 0.562638 0.019452 88.43	2	1.777341 0.061447 99.84
10	1	1	1	1.000000 0.414484	1	2.412636



TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.506651	1	0.258560
			2	0.493349	2	0.762350
			BIAS CORR	0.897597		
			VAR CCEFF	0.040534		0.046102
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
2	2	1	1	1.000000	2	0.942152
			BIAS CORR	0.738094		
			VAR CCEFF	0.054558		0.049109
			EFFICIENCY	74.30		93.88
2	1	1	1	1.000000	1	1.354840
			BIAS CORR	0.738094		
			VAR CCEFF	0.054558		0.100146
			EFFICIENCY	100.00		100.00
			EFF(M/N)	74.30		46.04
3	3	3	1	0.368665	1	0.125562
			2	0.276083	2	0.277320
			3	0.355252	3	0.584771
			BIAS CORR	0.896510		
			VAR CCEFF	0.026953		0.029693
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
3	3	2	1	0.508735	2	0.358517
			3	0.491265	3	0.593005
			BIAS CORR	0.895598		
			VAR CCEFF	0.028561		0.030169
			EFFICIENCY	94.37		98.42
3	3	1	2	1.000000	3	0.875416
			BIAS CORR	0.899573		
			VAR CCEFF	0.038011		0.033980
			EFFICIENCY	70.91		87.38
3	2	2	1	0.426693	1	0.185821
			2	0.573307	2	0.975844
			BIAS CORR	0.796220		
			VAR CCEFF	0.031475		0.045922

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				85.63		64.66
3	2	1	2	1.000000	2	1.111639
				BIAS CORR		
				0.899573		
				VAR CCEFF		0.046972
				0.038011		
				EFFICIENCY		97.76
				82.81		
3	1	1	1	1.000000	1	1.521247
				BIAS CORR		
				0.657355		
				VAR CCEFF		0.100146
				0.043275		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		29.65
				62.28		
4	4	4	1	0.300469	1	0.075850
			2	0.198875	2	0.158114
			3	0.221622	3	0.258281
			4	0.279034	4	0.477931
				BIAS CORR		
				0.895434		
				VAR CCEFF		0.021850
				0.020167		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
4	4	3	1	0.383155	2	0.209172
			3	0.331371	3	0.259359
			4	0.285474	4	0.480740
				BIAS CORR		
				0.899744		
				VAR CCEFF		0.021988
				0.020705		
				EFFICIENCY		99.37
				97.40		
4	4	2	1	0.512461	3	0.412904
			4	0.487539	4	0.496336
				BIAS CORR		
				0.892584		
				VAR CCEFF		0.022777
				0.022861		
				EFFICIENCY		95.93
				88.22		
4	4	1	3	1.000000	4	0.837270
				BIAS CORR		
				0.986179		
				VAR CCEFF		0.026756
				0.030353		
				EFFICIENCY		81.66
				66.44		

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.331691	1	0.100879
			2	0.217249	2	0.208012
			3	0.451064	3	0.780600
				BIAS CORR		
				0.022277		0.029572
				VAR COEFF		100.00
				EFFICIENCY		73.89
4	3	2	1	0.422996	2	0.276442
			3	0.577004	3	0.780127
				BIAS CORR		
				0.022547		0.029416
				VAR COEFF		99.18
				EFFICIENCY		97.20
4	3	1	3	1.000000	3	1.014014
				BIAS CORR		
				0.006179		0.031210
				VAR COEFF		94.75
				EFFICIENCY		
4	2	2	1	0.390099	1	0.148649
			2	0.609900	2	1.114359
				BIAS CORR		
				0.012029		0.045872
				VAR COEFF		100.00
				EFFICIENCY		47.63
4	2	1	2	1.000000	2	1.230064
				BIAS CORR		
				0.012966		0.041403
				VAR COEFF		48.86
				EFFICIENCY		
4	1	1	1	1.000000	1	1.651569
				BIAS CORR		
				0.605489		0.100146
				VAR COEFF		100.00
				EFFICIENCY		21.82
5	5	5	1	0.259062	1	0.051477
			2	0.157511	2	0.104079
			3	0.167046	3	0.161637
			4	0.185844	4	0.235916

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			5	0.230537	5	0.406238
			BIAS CORR	0.894411		
			VAR CCEFF	0.016101		0.017270
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.262495	2	0.139752
			2	0.237412	3	0.161849
			4	0.266706	4	0.236516
			5	0.233387	5	0.407447
			BIAS CORR	0.894297		
			BIAS CORR	0.016339		0.017324
			VAR CCEFF	98.54		99.69
			EFFICIENCY			
5	5	3	1	0.325505	2	0.216308
			3	0.371667	4	0.315104
			5	0.302827	5	0.412153
			BIAS CORR	0.892426		
			VAR CCEFF	0.016728		0.017547
			EFFICIENCY	96.26		98.42
5	5	2	1	0.421987	2	0.414081
			4	0.578013	5	0.509258
			BIAS CORR	0.843035		
			VAR CCEFF	0.018544		0.018192
			EFFICIENCY	86.83		94.93
5	5	1	3	1.000000	5	0.811684
			BIAS CORR	0.899800		
			VAR CCEFF	0.024618		0.022500
			EFFICIENCY	65.40		76.76
5	4	4	1	0.278715	1	0.064337
			2	0.168821	2	0.129544
			3	0.177792	3	0.199429
			4	0.374672	4	0.657416
			BIAS CORR	0.836854		
			VAR CCEFF	0.017139		0.021771
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.86		79.33

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.282630	2	0.174258
			2	0.254079	3	0.195836
			4	0.463291	4	0.659736
				BIAS CORR		
				VAR CCEFF		0.021855
				EFFICIENCY		98.47
						99.62
5	4	2	1	0.421987	2	0.269532
			4	0.578013	4	0.763085
				BIAS CORR		
				VAR CCEFF		0.022155
				EFFICIENCY		98.09
5	4	1	3	1.000000	4	0.958069
				BIAS CORR		
				VAR CCEFF		0.023761
				EFFICIENCY		91.62
5	3	3	1	0.311269	1	0.085355
			2	0.186500	2	0.170230
			3	0.502231	3	0.914619
				BIAS CORR		
				VAR CCEFF		0.029532
				EFFICIENCY		100.00
				EFF(M/N)		58.48
5	3	2	1	0.393102	2	0.229810
			3	0.616898	3	0.918511
				BIAS CORR		
				VAR CCEFF		0.029679
				EFFICIENCY		99.50
5	3	1	3	1.000000	3	1.111359
				BIAS CORR		
				VAR CCEFF		0.030406
				EFFICIENCY		97.12
5	2	2	1	0.368995	1	0.125479
			2	0.631005	2	1.229963
				BIAS CORR		
				VAR CCEFF		0.045851



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		37.67
5	2	1	2	1.000000	2	1.324368
				BIAS CORR		
				0.755077		
				VAR CCEFF		0.046171
				0.026324		
				EFFICIENCY		99.31
				88.13		
5	1	1	1	1.000000	1	1.760294
				BIAS CORR		
				0.568087		
				VAR CCEFF		0.100146
				0.032319		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		17.24
				49.82		
6	6	6	1	0.230870	1	0.037565
			2	0.131764	2	0.074506
			3	0.135169	3	0.112685
			4	0.144904	4	0.156932
			5	0.160436	5	0.215715
			6	0.196856	6	0.354552
				BIAS CORR		
				0.893467		
				VAR CCEFF		0.014272
				0.013395		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
6	6	5	1	0.232656	2	0.101070
			2	0.192062	3	0.112710
			4	0.215350	4	0.157126
			5	0.161504	5	0.216050
			6	0.198428	6	0.355159
				BIAS CORR		
				0.894433		
				VAR CCEFF		0.014297
				0.013511		
				EFFICIENCY		99.82
				99.14		
6	6	4	1	0.280884	2	0.150686
			3	0.290639	4	0.215531
			5	0.227898	5	0.216998
			6	0.200580	6	0.357048
				BIAS CORR		
				0.896317		
				VAR CCEFF		0.014378
				0.013679		
				EFFICIENCY		99.26
				97.92		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
6	6	3	1	0.334612	3	0.273371
			4	0.404008	5	0.289412
			6	0.261380	6	0.361424
		BIAS CORR		0.897484		
				0.014182		0.014569
				94.45		97.96
6	6	2	1	0.422199	4	0.452088
			5	0.577801	6	0.449184
				0.855280		
		BIAS CORR		0.015822		0.015194
				84.66		93.93
6	6	1	4	1.000000	5	0.920639
				0.958893		
				0.021007		0.019429
		BIAS CORR		63.76		73.45
6	5	5	1	0.244505	1	0.045103
			2	0.139297	2	0.089242
			3	0.142552	3	0.134572
			4	0.151906	4	0.185976
			5	0.321741	5	0.571352
		BIAS CORR		0.846048		
				0.014192		0.017215
				100.00		100.00
				94.38		82.90
6	5	4	1	0.246504	2	0.121177
			2	0.202979	3	0.134648
			4	0.226291	4	0.186269
			5	0.324226	5	0.572525
		BIAS CORR		0.846666		
				0.014321		0.017251
				99.09		99.79
6	5	3	1	0.297684	2	0.180640
			3	0.306553	4	0.256300
			5	0.395764	5	0.575927
		BIAS CORR		0.848127		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.017367 99.13
6	5	2	1	0.422199	3	0.327286
			5	0.577801	5	0.667324
				BIAS CORR		
				VAR CCEFF		0.017640
				EFFICIENCY		97.59
6	5	1	4	1.000000	5	0.920639
				BIAS CORR		
				VAR CCEFF		0.015429
				EFFICIENCY		88.61
6	4	4	1	0.265457	1	0.056287
			2	0.150597	2	0.111005
			3	0.153043	3	0.165996
			4	0.430903	4	0.783224
				BIAS CORR		
				VAR CCEFF		0.021741
				EFFICIENCY		100.00
				EFF(M/N)		65.65
6	4	3	1	0.267778	2	0.150933
			2	0.219099	3	0.166169
			4	0.513123	4	0.785069
				BIAS CORR		
				VAR CCEFF		0.021797
				EFFICIENCY		99.74
6	4	2	1	0.379708	2	0.224636
			4	0.620792	4	0.876010
				BIAS CORR		
				VAR CCEFF		0.021973
				EFFICIENCY		98.94
6	4	1	4	1.000000	4	1.042869
				BIAS CORR		
				VAR CCEFF		0.022847
				EFFICIENCY		95.16

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE	
6	3	3	1	0.298206	1	0.074560	
			2	0.167407	2	0.145766	
			3	0.534387	3	1.018150	
		BIAS CORR		0.729308			
		VAR CCEFF		0.017379		0.029513	
		EFFICIENCY		100.00		100.00	
		EFF(M/N)		77.07		48.36	
6	3	2	1	0.359535	2	0.198804	
			3	0.640465	3	1.021045	
			BIAS CORR		0.732323		
		VAR CCEFF		0.017621		0.029612	
		EFFICIENCY		98.63		99.67	
6	3	1	3	1.000000	3	1.189476	
			BIAS CORR		0.407066		
			VAR CCEFF		0.021245		0.030059
			EFFICIENCY		81.80		98.18
6	2	2	1	0.355250	1	0.109449	
			2	0.644750	2	1.321113	
			BIAS CORR		0.650801		
		VAR CCEFF		0.020854		0.045840	
		EFFICIENCY		100.00		100.00	
		EFF(M/N)		64.23		31.13	
6	2	1	2	1.000000	2	1.403976	
			BIAS CORR		0.712263		
			VAR CCEFF		0.023364		0.046054
			EFFICIENCY		89.26		99.54
6	1	1	1	1.000000	1	1.854421	
			BIAS CORR		0.539252		
			VAR CCEFF		0.029122		0.100146
			EFFICIENCY		100.00		100.00
			EFF(M/N)		46.00		14.25
7	7	7	1	0.210226	1	0.028808	
			2	0.114197	2	0.056377	
			3	0.114238	3	0.083875	
			4	0.119563	4	0.113967	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
7	7	6	5	0.128330	5	0.149837
			6	0.141399	6	0.198337
			7	0.172045	7	0.315379
			BIAS CORR	0.892604		
			VAR CCEFF	0.011464		0.012158
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			1	0.211380	2	0.077046
			2	0.114672	3	0.083054
			3	0.172133	4	0.114001
7	7	5	5	0.186879	5	0.149964
			6	0.141986	6	0.198540
			7	0.172949	7	0.315716
			BIAS CORR	0.892568		
			VAR CCEFF	0.011531		0.012171
			EFFICIENCY	99.43		99.89
			1	0.212825	2	0.112526
			2	0.164152	4	0.159217
			4	0.251387	5	0.150239
			6	0.197631	6	0.199077
7	7	4	7	0.174005	7	0.316617
			BIAS CORR	0.892259		
			VAR CCEFF	0.011617		0.012207
			EFFICIENCY	90.69		99.59
			1	0.254547	3	0.200197
			3	0.245720	5	0.206496
			5	0.278536	6	0.200142
			7	0.221197	7	0.318657
			BIAS CORR	0.890598		
			VAR CCEFF	0.011781		0.012289
7	7	3	EFFICIENCY	97.31		98.93
			1	0.301579	4	0.315197
			4	0.428543	6	0.268030
			7	0.269878	7	0.324016
			BIAS CORR	0.888027		
			VAR CCEFF	0.012304		0.012510
			EFFICIENCY	93.18		97.18

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
7	7	2	2	0.493281	5	0.478001
			6	0.506719	7	0.405141
			BIAS CORR	0.902015		
			VAR CCEFF	0.013807		0.013127
			EFFICIENCY	83.03		92.62
7	7	1	4	1.000000	6	0.893300
			BIAS CORR	0.899958		
			VAR CCEFF	0.018171		0.016554
			EFFICIENCY	63.09		73.27
7	6	6	1	0.220311	1	0.033618
			2	0.119592	2	0.065767
			3	0.119430	3	0.097538
			4	0.124810	4	0.132351
			5	0.133207	5	0.172717
			6	0.282651	6	0.507386
			BIAS CORR	0.852300		
			VAR CCEFF	0.012017		0.014232
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.40		85.43
7	6	5	1	0.221571	2	0.089903
			2	0.120117	3	0.097531
			3	0.179908	4	0.132461
			5	0.194365	5	0.172894
			6	0.284039	6	0.508008
			BIAS CORR	0.852040		
			VAR CCEFF	0.012089		0.014250
			EFFICIENCY	99.40		99.87
7	6	4	1	0.223137	2	0.131233
			2	0.171900	4	0.185091
			4	0.262234	5	0.173290
			6	0.342729	6	0.509661
			BIAS CORR	0.851470		
			VAR CCEFF	0.012183		0.014299
7	6	3	1	0.268976	3	0.233351

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)  
SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
7	6	2	3	0.326556	5	0.238909
			6	0.404467	6	0.513238
			BIAS CORR	0.851601		
			VAR CCEFF	0.012463		0.014410
			EFFICIENCY	96.42		98.76
			2	0.493281	4	0.367332
			6	0.506719	6	0.597990
			BIAS CORR	0.902015		
			VAR CCEFF	0.013807		0.014710
			EFFICIENCY	87.04		96.75
7	6	1	4	1.000000	6	0.893300
			BIAS CORR	0.899958		
			VAR CCEFF	0.018171		0.016594
			EFFICIENCY	66.13		85.77
			1	0.235077	1	0.040369
			2	0.127261	2	0.078614
			3	0.126917	3	0.116646
			4	0.131706	4	0.156763
			5	0.379039	5	0.689722
			BIAS CORR	0.807472		
7	5	5		0.012829		0.017193
			VAR CCEFF	100.00		100.00
			EFFICIENCY	100.00		100.00
			EFF(M/N)	89.36		70.71
			1	0.236483	2	0.107622
			2	0.127855	3	0.116665
			3	0.190793	4	0.156931
			5	0.444869	5	0.690697
			BIAS CORR	0.806967		
			VAR CCEFF	0.012910		0.017219
7	5	4		99.38		99.85
			EFFICIENCY	99.38		99.85
			1	0.281295	2	0.157160
			3	0.270007	4	0.220021
			5	0.448698	5	0.693186
			BIAS CORR	0.810237		
			VAR CCEFF	0.013031		0.017289
			EFFICIENCY	98.45		99.44

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.377975	2	0.279015
			5	0.622025	5	0.775430
			BIAS CORR	0.818991		
			VAR CCEFF	0.013838		0.017446
			EFFICIENCY	92.71		98.55
7	5	1	4	1.000000	5	0.996915
			BIAS CORR	0.899958		
			VAR CCEFF	0.018171		0.018460
			EFFICIENCY	70.60		93.13
7	4	4	1	0.256410	1	0.050282
			2	0.138294	2	0.097857
			3	0.136876	3	0.143720
			4	0.468420	4	0.881377
			BIAS CORR	0.756715		
			VAR CCEFF	0.014012		0.021725
			EFFICIENCY	100.00		100.00
			EFF(M/N)	81.82		55.96
7	4	3	1	0.258018	2	0.134035
			2	0.197146	3	0.143792
			4	0.544836	4	0.882862
			BIAS CORR	0.757267		
			VAR CCEFF	0.014110		0.021766
7	4	2	1	0.354466	2	0.195261
			4	0.645534	4	0.963916
			BIAS CORR	0.763854		
			VAR CCEFF	0.014504		0.021873
			EFFICIENCY	96.61		99.32
7	4	1	4	1.000000	4	1.111163
			BIAS CORR	0.899958		
			VAR CCEFF	0.018171		0.022436
			EFFICIENCY	77.11		96.83
7	3	3	1	0.289110	1	0.066556
			2	0.154352	2	0.128388



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
7	3	2	3	0.556539	2	1.103303
			BIAS CORR	0.697092		
			VAR CCEFF	0.015841		0.029502
			EFFICIENCY	100.00		100.00
			EFF(M/N)	72.37		41.21
7	3	2	1	0.343852	2	0.176370
			3	0.656148	2	1.105539
			BIAS CORR	0.699902		
			VAR CCEFF	0.016019		0.029573
			EFFICIENCY	98.89		99.76
7	3	1	3	1.000000	2	1.255860
			BIAS CORR	0.796267		
			VAR CCEFF	0.018943		0.029876
			EFFICIENCY	83.63		98.75
7	2	2	1	0.345578	1	0.097597
			2	0.654422	2	1.399283
			BIAS CORR	0.622455		
			VAR CCEFF	0.019059		0.045834
			EFFICIENCY	100.00		100.00
7	2	1	2	1.000000	2	1.473490
			BIAS CORR	0.678661		
			VAR CCEFF	0.021181		0.045987
			EFFICIENCY	89.99		99.67
7	1	1	1	1.000000	1	1.937921
			BIAS CORR	0.516017		
			VAR CCEFF	0.026666		0.100146
			EFFICIENCY	100.00		100.00
			EFF(M/N)	42.99		12.14
8	8	8	1	0.194329	1	0.022903
			2	0.101441	2	0.044384
			3	0.099446	3	0.065272
			4	0.102236	4	0.087367
			5	0.107643	5	0.112188
			6	0.115350	6	0.142302

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
8	8	7	7	0.126583	7	0.183495
			8	0.152972	8	0.284575
			BIAS CORR			
				0.891818		
			VAR COEFF			0.010588
			EFFICIENCY			100.00
			EFF(M/N)			100.00
8	8	6	1	0.195049	2	0.060996
			2	0.101691	3	0.065240
			3	0.147110	4	0.087402
			5	0.160004	5	0.112234
			6	0.115557	6	0.142401
			7	0.127076	7	0.183617
			8	0.153512	8	0.284778
			BIAS CORR			
8	8	5		0.892140		
			VAR COEFF			0.010596
			EFFICIENCY			99.61
			1	0.195962	2	0.087918
			2	0.143459	4	0.123469
			4	0.212382	5	0.112267
			6	0.166701	6	0.142690
8	8	4	7	0.127368	7	0.183671
			8	0.154228	8	0.285278
			BIAS CORR			
				0.892602		
			VAR COEFF			0.010614
			EFFICIENCY			99.75
			1	0.210441	3	0.154917
8	8	3	3	0.211766	5	0.157213
			5	0.225656	6	0.142882
			7	0.176420	7	0.184658
			8	0.155217	8	0.286337
			BIAS CORR			
				0.893915		
			VAR COEFF			0.010656
			EFFICIENCY			99.36
8	8	2	1	0.234896	3	0.155986
			3	0.265756	5	0.237170
			6	0.302140	7	0.249048
			8	0.197208	8	0.288462

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		0.010745
				EFFICIENCY		98.54
8	8	3	1	0.277982	4	0.317570
			4	0.361775	7	0.300013
			7	0.360743	8	0.294706
				BIAS CORR		
				VAR CCEFF		0.010950
				EFFICIENCY		96.34
8	8	2	1	0.377157	5	0.483327
			6	0.622843	8	0.416513
				BIAS CORR		
				VAR CCEFF		0.011587
				EFFICIENCY		91.38
8	8	1	5	1.000000	7	0.872167
				BIAS CORR		
				VAR CCEFF		0.014550
				EFFICIENCY		72.57
8	7	7	1	0.202148	1	0.026192
			2	0.105444	2	0.050658
			3	0.103405	3	0.074658
			4	0.105999	4	0.099336
			5	0.111611	5	0.127739
			6	0.118897	6	0.160735
			7	0.252496	7	0.457630
				BIAS CORR		
				VAR CCEFF		0.012128
				EFFICIENCY		100.00
				EFF(M/N)		87.30
8	7	6	1	0.202923	2	0.069661
			2	0.105719	3	0.074629
			3	0.152844	4	0.093885
			5	0.165921	5	0.127804
			6	0.119125	6	0.160864
			7	0.253468	7	0.457994
				BIAS CORR		
						0.856987

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE			
				VAR CCEFF EFFICIENCY	0.010465 99.60	0.012138 99.92			
8	7	5	1	0.203806	2	0.100483			
			2	0.149182	4	0.140673			
			4	0.220437	5	0.127873			
			6	0.172189	6	0.161231			
			7	0.254386	7	0.458835			
			BIAS CORR	0.857299					
			VAR CCEFF EFFICIENCY	0.010516 99.11	0.012163 99.72				
8	7	4	1	0.240332	3	0.176982			
			3	0.220147	5	0.179087			
			5	0.233703	6	0.161528			
			7	0.305818	7	0.460894			
			BIAS CORR	0.858337					
			VAR CCEFF EFFICIENCY	0.010601 98.32	0.012216 99.28				
			8	7	3	1	0.277982	3	0.178376
4	0.361775	5				0.269693			
7	0.360243	7				0.531551			
BIAS CORR	0.860479								
VAR CCEFF EFFICIENCY	0.010895 95.66	0.012330 98.36							
8	7	2				1	0.377157	4	0.362137
						6	0.622843	7	0.601336
			BIAS CORR	0.833892					
			VAR CCEFF EFFICIENCY	0.012237 85.17	0.012650 95.87				
			8	7	1	5	1.000000	7	0.872167
						BIAS CORR	0.944794		
						VAR CCEFF EFFICIENCY	0.016079 64.82	0.014590 83.13	
8	6	6				1	0.213152	1	0.030528
						2	0.111187	2	0.059290
						3	0.108473	3	0.086287

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			4	0.111594	4	0.115986
			5	0.116360	5	0.146952
			6	0.339235	6	0.612976
			BIAS CORR	0.818338		
			VAR CCEFF	0.010995		0.014215
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.12		74.48
8	6	5	1	0.214013	2	0.081450
			2	0.111459	3	0.086264
			3	0.160553	4	0.116059
			5	0.173567	5	0.147046
			6	0.340368	6	0.619552
			BIAS CORR	0.818398		
			VAR CCEFF	0.011041		0.014228
			EFFICIENCY	99.58		99.90
8	6	4	1	0.214973	2	0.117113
			2	0.157126	4	0.163833
			4	0.231358	5	0.147167
			6	0.396542	6	0.620950
			BIAS CORR	0.818582		
			VAR CCEFF	0.011097		0.014261
			EFFICIENCY	99.08		99.67
8	6	3	1	0.255384	3	0.206085
			3	0.287754	5	0.207140
			6	0.456862	6	0.623726
			BIAS CORR	0.820074		
			VAR CCEFF	0.011275		0.014336
			EFFICIENCY	97.51		99.16
8	6	2	1	0.377157	4	0.318636
			6	0.622843	6	0.700843
			BIAS CORR	0.833892		
			VAR CCEFF	0.012237		0.014520
			EFFICIENCY	89.85		97.90
8	6	1	5	1.000000	6	0.963322
			BIAS CORR	0.944794		
			VAR CCEFF	0.016079		0.015599

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				68.38		91.13
				EFFICIENCY		
8	5	5	1	0.228374	1	0.036705
			2	0.118598	2	0.070470
			3	0.116060	3	0.103863
			4	0.117966	4	0.136797
			5	0.419002	5	0.783094
				BIAS CORR		
				0.775730		
				VAR CCEFF		0.017181
				0.011785		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		61.63
				85.01		
8	5	4	1	0.229339	2	0.097132
			2	0.118954	3	0.103855
			3	0.171151	4	0.136909
			5	0.480557	5	0.783919
				BIAS CORR		
				0.775645		
				VAR CCEFF		0.017200
				0.011836		
				EFFICIENCY		99.89
				99.56		
8	5	3	1	0.270128	2	0.140129
			3	0.245806	4	0.194508
			5	0.484067	5	0.785756
				BIAS CORR		
				0.778563		
				VAR CCEFF		0.017248
				0.011930		
				EFFICIENCY		99.61
				98.78		
8	5	2	1	0.351431	3	0.246369
			5	0.648569	5	0.860002
				BIAS CORR		
				0.787320		
				VAR CCEFF		0.017352
				0.012492		
				EFFICIENCY		99.01
				94.33		
8	5	1	5	1.000000	5	1.058431
				BIAS CORR		
				0.944794		
				VAR CCEFF		0.018013
				0.016079		
				EFFICIENCY		95.38
				73.29		
8	4	4	1	0.249813	1	0.045555
			2	0.129424	2	0.087997
			3	0.125406	3	0.127536

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			4	0.495357	4	0.962433
			BIAS CORR	0.727386		
			VAR CCEFF	0.012910		0.021716
			EFFICIENCY	100.00		100.00
			EFF(M/N)	77.60		48.76
8	4	3	1	0.251031	2	0.121147
			2	0.181949	2	0.127557
			4	0.567020	4	0.963652
			BIAS CORR	0.728049		
			VAR CCEFF	0.012980		0.021747
8	4	2	1	0.337480	2	0.174057
			4	0.662520	4	1.036868
			BIAS CORR	0.734162		
			VAR CCEFF	0.013277		0.021819
			EFFICIENCY	97.23		99.53
8	4	1	4	1.000000	4	1.169423
			BIAS CORR	0.855122		
			VAR CCEFF	0.016243		0.022213
			EFFICIENCY	79.48		97.76
8	3	3	1	0.282406	1	0.060353
			2	0.144845	2	0.115291
			3	0.572749	3	1.176079
			BIAS CORR	0.670434		
			VAR CCEFF	0.014629		0.029496
8	3	2	1	0.332625	2	0.159235
			3	0.667375	3	1.177866
			BIAS CORR	0.673057		
			VAR CCEFF	0.014769		0.021549
			EFFICIENCY	99.06		99.82
8	3	1	3	1.000000	2	1.314140
			BIAS CORR	0.760954		
			VAR CCEFF	0.017237		0.029768

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		84.87
						99.08
8	2	2	1	0.338402	1	0.088423
			2	0.661598	2	1.468114
				BIAS CORR		0.598937
				VAR CCEFF		0.017635
				EFFICIENCY		100.00
				EFF(M/N)		56.81
8	2	1	2	1.000000	2	1.535556
				BIAS CORR		0.651230
				VAR CCEFF		0.019485
				EFFICIENCY		90.50
8	1	1	1	1.000000	1	2.013285
				BIAS CORR		0.496701
				VAR CCEFF		0.024707
				EFFICIENCY		100.00
				EFF(M/N)		40.55
9	9	9	1	0.181628	1	0.018716
			2	0.091746	2	0.035991
			3	0.088450	3	0.052459
			4	0.089615	4	0.069499
			5	0.093080	5	0.088013
			6	0.098040	6	0.109101
			7	0.104916	7	0.135021
			8	0.114692	8	0.170763
			9	0.137835	9	0.259661
				BIAS CORR		0.891101
				VAR CCEFF		0.008895
				EFFICIENCY		100.00
				EFF(M/N)		100.00
9	9	8	1	0.182129	2	0.049679
			2	0.091869	3	0.052466
			3	0.129218	4	0.069523
			5	0.140338	5	0.088015
			6	0.097873	6	0.109172
			7	0.105514	7	0.135058
			8	0.114820	8	0.170851



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
9	9	7	9	0.138240	9	0.259790
			BIAS CORR	0.891539		
			VAR CCEFF	0.008921		0.009381
			EFFICIENCY	99.72		99.95
			1	0.182750	2	0.070960
			2	0.091985	4	0.099068
			3	0.129732	5	0.087893
			5	0.191479	6	0.109501
			7	0.150391	7	0.135016
			8	0.114996	8	0.171108
9	9	6	9	0.138667	9	0.260069
			BIAS CORR	0.890991		
			VAR CCEFF	0.008950		0.009392
			EFFICIENCY	99.39		99.84
			1	0.183459	2	0.071067
			2	0.128865	4	0.141917
			4	0.186044	6	0.152952
			6	0.204183	7	0.135013
			8	0.158366	8	0.171613
			9	0.139083	9	0.260634
9	9	5	BIAS CORR	0.890654		
			VAR CCEFF	0.008993		0.009414
			EFFICIENCY	98.92		99.60
			1	0.215405	3	0.124746
			3	0.189394	5	0.181756
			5	0.193915	7	0.186037
			7	0.226217	8	0.171705
			9	0.175070	9	0.261732
			BIAS CORR	0.889271		
			VAR CCEFF	0.009081		0.009452
9	9	4	EFFICIENCY	97.95		99.20
			1	0.245677	4	0.191874
			4	0.301898	6	0.231073
			7	0.274086	8	0.228711
			9	0.178339	9	0.263952
			BIAS CORR	0.893359		
			VAR CCEFF	0.009258		0.009543

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	i	LOCATION	i	SCALE
				96.09		98.25
			EFFICIENCY			
9	9	3	1	0.258192	4	0.248147
			4	0.375473	7	0.347660
			8	0.366335	9	0.322252
			BIAS CORR	0.859950		
			VAR CCEFF	0.009741		0.009756
			EFFICIENCY	91.32		96.11
9	9	2	2	0.442470	6	0.504396
			7	0.557530	9	0.382465
			BIAS CORR	0.872744		
			VAR CCEFF	0.010936		0.010327
			EFFICIENCY	81.34		90.80
9	9	1	5	1.000000	8	0.855174
			BIAS CORR	0.900066		
			VAR CCEFF	0.014392		0.013096
			EFFICIENCY	61.81		71.60
9	8	8	1	0.187988	1	0.021050
			2	0.094920	2	0.040560
			3	0.091314	3	0.058758
			4	0.092832	4	0.078553
			5	0.095806	5	0.098163
			6	0.101212	6	0.122486
			7	0.107572	7	0.150145
			8	0.228455	8	0.417686
			BIAS CORR	0.860120		
			VAR CCEFF	0.009203		0.010565
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.66		88.75
9	8	7	1	0.188385	2	0.055958
			2	0.095285	3	0.058725
			3	0.091276	4	0.078585
			4	0.139743	5	0.098170
			6	0.148607	6	0.122573
			7	0.107527	7	0.150207
			8	0.229176	8	0.417923
			BIAS CORR	0.860026		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				0.009230		0.010571
				99.71		99.94
9	8	6	1	0.189087	2	0.079788
			2	0.095188	4	0.111670
			3	0.134104	5	0.098046
			5	0.197595	6	0.122958
			7	0.154546	7	0.150166
			8	0.229480	8	0.418507
				0.859817		
				0.009261		0.010584
				99.37		99.82
9	8	5	1	0.189830	2	0.079930
			2	0.133278	4	0.159511
			4	0.192295	6	0.171473
			6	0.210286	7	0.150159
			8	0.274311	8	0.419671
				0.859383		
				0.009306		0.010612
				98.89		99.55
9	8	4	1	0.223232	3	0.140394
			3	0.238764	5	0.203881
			6	0.260730	7	0.207617
			8	0.277274	8	0.420964
				0.861846		
				0.009413		0.010661
				97.77		99.10
9	8	3	1	0.258192	4	0.216022
			4	0.375473	6	0.258764
			8	0.366335	8	0.486837
				0.859950		
				0.009741		0.010774
				94.48		98.06
9	8	2	2	0.442470	5	0.394007
			7	0.557530	8	0.551901
				0.872744		
				0.010936		0.011076

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		84.15
						95.34
9	8	1	5	1.000000	8	0.855174
				BIAS CORR		
				VAR CCEFF		0.013096
				EFFICIENCY		80.67
9	7	7	1	0.196517	1	0.024129
			2	0.098996	2	0.045938
			3	0.095946	3	0.068251
			4	0.095877	4	0.087630
			5	0.100596	5	0.113339
			6	0.104468	6	0.137658
			7	0.307598	7	0.563190
				BIAS CORR		
				VAR CCEFF		0.012114
				EFFICIENCY		100.00
				EFF(M/N)		77.40
9	7	6	1	0.197091	2	0.063593
			2	0.099147	3	0.068219
			3	0.139590	4	0.087673
			5	0.151185	5	0.113357
			6	0.104308	6	0.137768
			7	0.303679	7	0.563529
				BIAS CORR		
				VAR CCEFF		0.012122
				EFFICIENCY		99.93
9	7	5	1	0.197795	2	0.091294
			2	0.099291	4	0.126129
			3	0.140168	5	0.113737
			5	0.205728	6	0.138440
			7	0.357017	7	0.564154
				BIAS CORR		
				VAR CCEFF		0.012140
				EFFICIENCY		99.79
9	7	4	1	0.231115	2	0.091494
			3	0.202922	4	0.181454
			5	0.206833	6	0.194345

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
9	7	3	7	0.359130	7	0.565523
			BIAS CORR	0.928796		
			VAR CCEFF	0.009747		0.012178
			EFFICIENCY	98.75		99.48
9	7	3	1	0.263935	3	0.160447
			4	0.323138	5	0.232062
			7	0.412927	7	0.631507
			BIAS CORR	0.831983		
9	7	2		0.009949		0.012236
			VAR CCEFF	96.75		99.00
			EFFICIENCY			
9	7	2	2	0.442470	4	0.313350
			7	0.557530	7	0.696755
			BIAS CORR	0.872744		
			VAR CCEFF	0.010936		0.012435
9	7	1		88.02		97.42
			EFFICIENCY			
9	7	1	5	1.000000	7	0.937362
			BIAS CORR	0.900066		
			VAR CCEFF	0.014392		0.013585
			EFFICIENCY	66.88		89.18
9	6	6	1	0.207858	1	0.027982
			2	0.105098	2	0.054498
			3	0.100061	3	0.076994
			4	0.102463	4	0.104737
9	6	6	5	0.104450	5	0.128781
			6	0.380071	6	0.708022
			BIAS CORR	0.789713		
			VAR CCEFF	0.010189		0.014205
9	6	6		100.00		100.00
			EFFICIENCY	87.31		66.01
			EFF(M/N)			
9	6	5	1	0.208453	2	0.074980
			2	0.105522	3	0.076962
			3	0.100043	4	0.104798
			4	0.153642	5	0.128812
9	6	5	6	0.432339	6	0.708549
			BIAS CORR	0.789417		
			VAR CCEFF	0.010221		0.014216

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.93
9	6	4	1	0.209150	2	0.106251
			2	0.146572	4	0.148211
			4	0.210360	6	0.128697
			6	0.433911	6	0.709795
			BIAS CORR	0.790330		
			VAR CCEFF	0.010260		0.014239
			EFFICIENCY	95.31		99.76
9	6	3	1	0.246195	2	0.106520
			3	0.262035	4	0.211171
			6	0.491770	6	0.775157
			BIAS CORR	0.792226		
			VAR CCEFF	0.010388		0.014287
			EFFICIENCY	98.08		99.43
9	6	2	1	0.349516	4	0.284953
			6	0.650484	6	0.781761
			BIAS CORR	0.805709		
			VAR CCEFF	0.011077		0.014420
			EFFICIENCY	91.48		98.51
9	6	1	5	1.000000	6	1.019808
			BIAS CORR	0.900066		
			VAR CCEFF	0.014392		0.015130
			EFFICIENCY	70.80		93.89
9	5	5	1	0.223356	1	0.033804
			2	0.111975	2	0.063861
			3	0.108176	3	0.094441
			4	0.107841	4	0.121869
			5	0.448653	5	0.860715
			BIAS CORR	0.748939		
			VAR CCEFF	0.010749		0.017173
			EFFICIENCY	100.00		100.00
			EFF(M/N)	81.4		54.60
9	5	4	1	0.224084	2	0.088617
			2	0.112184	3	0.094418
			3	0.157319	4	0.121958

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			5	0.506413	5	0.861411
			BIAS CORR	0.749032		
			VAR CCEFF	0.010986		0.017189
			EFFICIENCY	99.67		99.91
9	5	3	1	0.261935	2	0.127025
			3	0.228391	4	0.175276
			5	0.509674	5	0.862850
			BIAS CORR	0.751686		
			VAR CCEFF	0.011061		0.017224
			EFFICIENCY	98.99		99.71
9	5	2	1	0.333463	3	0.222251
			5	0.666537	5	0.930316
			BIAS CORR	0.760078		
			VAR CCEFF	0.011485		0.017297
			EFFICIENCY	95.34		99.29
9	5	1	5	1.000000	5	1.111029
			BIAS CORR	0.900066		
			VAR CCEFF	0.014392		0.017765
			EFFICIENCY	76.08		96.67
9	4	4	1	0.244774	1	0.041808
			2	0.122737	2	0.080324
			3	0.116805	3	0.115089
			4	0.515684	4	1.031821
			BIAS CORR	0.702574		
			VAR CCEFF	0.012020		0.021711
			EFFICIENCY	100.00		100.00
			EFF(M/N)	74.01		43.19
9	4	3	1	0.245752	2	0.110965
			2	0.170766	3	0.115082
			4	0.583482	4	1.032842
			BIAS CORR	0.703270		
			VAR CCEFF	0.012073		0.021734
			EFFICIENCY	99.56		99.89
9	4	2	1	0.325197	2	0.157841
			4	0.674803	4	1.099708

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	4	1	4	1.000000	4	1.220752
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	3	3	1	0.277259	1	0.055384
			2	0.137606	2	0.105003
			3	0.585135	3	1.239929
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		
9	3	2	1	0.324176	2	0.145639
			3	0.675824	3	1.241394
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	3	1	3	1.000000	2	1.366406
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	2	2	1	0.332864	1	0.081080
			2	0.667136	2	1.529872
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		
9	2	1	2	1.000000	2	1.591858
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	1	1	1	1.000000	1	2.082189



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.480264	
				VAR CCEFF	0.023099	0.100146
				EFFICIENCY	100.00	100.00
				EFF(M/N)	38.51	9.36
10	10	10	1	0.171193	1	0.015626
			2	0.084119	2	0.029873
			3	0.079949	3	0.043275
			4	0.080026	4	0.056897
			5	0.082233	5	0.071239
			6	0.085535	6	0.087209
			7	0.090225	7	0.105494
			8	0.096261	8	0.128232
			9	0.104944	9	0.159757
			10	0.125515	10	0.239057
			BIAS CORR	0.890440		
			VAR CCEFF	0.007998	0.008413	
			EFFICIENCY	100.00	100.00	
			EFF(M/N)	100.00	100.00	
10	10	9	1	0.171482	2	0.041376
			2	0.084488	3	0.043243
			3	0.079653	4	0.056923
			4	0.119435	5	0.071203
			6	0.127658	6	0.087293
			7	0.089446	7	0.105482
			8	0.097250	8	0.128298
			9	0.104761	9	0.159808
			10	0.125826	10	0.239145
						BIAS CORR
			VAR CCEFF	0.008014	0.008416	
			EFFICIENCY	99.80	99.96	
10	10	8	1	0.171996	2	0.058696
			2	0.083981	4	0.081635
			3	0.116307	5	0.070910
			5	0.168021	6	0.087888
			7	0.132611	7	0.104963
			8	0.095185	8	0.128755
			9	0.105979	9	0.159804
			10	0.125921	10	0.239344

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
10	10	7		BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.890734		0.008423
				0.008033		99.89
				99.57		
			1	0.172278	2	0.058753
			2	0.116938	4	0.115349
			4	0.165616	6	0.124162
			6	0.175759	7	0.104290
			8	0.138031	8	0.129620
			9	0.104853	9	0.159693
10	10	6	10	0.126525	10	0.239737
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.891025		0.008435
				0.008057		99.74
				99.26		
			1	0.200434	3	0.102733
			3	0.170318	5	0.145460
			5	0.169469	7	0.148763
			7	0.188198	8	0.127432
			9	0.144730	9	0.161091
10	10	5	10	0.126850	10	0.240118
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.891946		0.008455
				0.008102		99.50
				98.71		
			1	0.202789	4	0.156945
			3	0.207283	6	0.180219
			6	0.222034	8	0.177508
			8	0.208228	9	0.160566
			10	0.159666	10	0.241607
10	10	4		BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.889500		0.008501
				0.008192		98.97
				97.62		
			1	0.230611	4	0.197183
			4	0.315902	7	0.261375
			8	0.290580	9	0.214382
			10	0.162907	10	0.243569
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.891537		0.008581
				0.008380		98.05
				95.44		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.264041	5	0.279656
			5	0.401617	8	0.330691
			9	0.334342	10	0.297551
		BIAS CORR		0.867530		
				0.008786		0.008776
				91.02		95.86
		VAR CCEFF				
10	10	2	2	0.443027	7	0.520288
			8	0.556973	10	0.355064
				0.877271		
		BIAS CORR		0.009915		0.009344
				80.67		90.04
		EFFICIENCY				
10	10	1	6	1.000000	9	0.841102
				0.936184		
				0.013029		0.011936
		BIAS CORR		61.39		70.48
		VAR CCEFF				
10	9	9	1	0.176355	1	0.017377
			2	0.086583	2	0.033077
			3	0.082531	3	0.048485
			4	0.081920	4	0.062219
			5	0.085234	5	0.080312
			6	0.087351	6	0.095432
			7	0.092927	7	0.117303
			8	0.098275	8	0.140805
			9	0.208824	9	0.384822
		BIAS CORR		0.862683		
				0.008239		0.009358
				100.00		100.00
		EFFICIENCY		97.07		89.90
		8	1	0.176667	2	0.045871
			2	0.086972	3	0.048451
			3	0.082230	4	0.062250
			4	0.122776	5	0.080276
			6	0.131020	6	0.095529
			7	0.092127	7	0.117294
			8	0.099305	8	0.140883
			9	0.208902	9	0.384970

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
10	9	7		BIAS CORR		0.862753
				VAR CCEFF		0.008257
				EFFICIENCY		99.79
			1	0.177193	2	0.065283
			2	0.086450	4	0.089945
			3	0.119759	5	0.079956
			5	0.172965	6	0.096204
			7	0.136228	7	0.116724
			8	0.097180	8	0.141407
			9	0.210227	9	0.385176
10	9	6		BIAS CORR		0.862893
				VAR CCEFF		0.00827
				EFFICIENCY		99.56
			1	0.177518	2	0.065359
			2	0.120491	4	0.127984
			4	0.170477	6	0.137129
			6	0.190591	7	0.115987
			8	0.141328	8	0.142406
			9	0.209594	9	0.385468
				BIAS CORR		0.863058
10	9	5		VAR CCEFF		0.008303
				EFFICIENCY		99.23
			1	0.206507	2	0.114069
			3	0.175390	5	0.161589
			5	0.174487	7	0.164735
			7	0.193025	8	0.139991
			9	0.250591	9	0.387385
				BIAS CORR		0.863944
				VAR CCEFF		0.008349
				EFFICIENCY		98.68
10	9	4		BIAS CORR		0.861772
				VAR CCEFF		0.008472
				EFFICIENCY		97.26
			1	0.209601	4	0.174407
			3	0.214468	6	0.199641
			6	0.286142	8	0.195823
			9	0.289790	9	0.388400
				BIAS CORR		0.861772
				VAR CCEFF		0.009467
				EFFICIENCY		98.85

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
10	9	3	1	0.264041	4	0.219068
			5	0.401617	7	0.289536
			9	0.334342	9	0.449658
			BIAS CORR	0.867530		
			VAR CCEFF	0.008786		0.009564
			EFFICIENCY	93.77		97.85
10	9	2	2	0.443027	6	0.417754
			8	0.556973	9	0.512152
			BIAS CORR	0.877271		
			VAR CCEFF	0.009915		0.009879
			EFFICIENCY	83.10		94.72
10	9	1	6	1.000000	9	0.841102
			BIAS CORR	0.936184		
			VAR CCEFF	0.013029		0.011936
			EFFICIENCY	63.24		78.40
10	8	8	1	0.183241	1	0.019474
			2	0.090277	2	0.037871
			3	0.084568	3	0.052253
			4	0.087163	4	0.074201
			5	0.085819	5	0.085032
			6	0.092243	6	0.110529
			7	0.094960	7	0.129042
			8	0.281730	8	0.517886
			BIAS CORR	0.832751		
			VAR CCEFF	0.008564		0.010554
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.39		79.71
10	8	7	1	0.183558	2	0.052213
			2	0.090671	3	0.052217
			3	0.084266	4	0.074240
			4	0.128301	5	0.084994
			6	0.136213	6	0.110644
			7	0.094156	7	0.129037
			8	0.282836	8	0.518137
			BIAS CORR	0.832811		
			VAR CCEFF	0.008582		0.010559

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	:	SCALE
				EFFICIENCY		99.79
						99.95
10	8	6	1	0.184178	2	0.073138
			2	0.090163	4	0.104097
			3	0.124205	5	0.084651
			5	0.178854	6	0.111380
			7	0.140726	7	0.128429
			8	0.291874	8	0.518918
			BIAS CORR	0.832761		
			VAR CCEFF	0.008605		0.010568
			EFFICIENCY	99.53		99.85
10	8	5	1	0.184452	2	0.073225
			2	0.125034	4	0.144383
			4	0.177204	6	0.154723
			6	0.186899	7	0.127658
			8	0.326411	8	0.520280
			BIAS CORR	0.833024		
			VAR CCEFF	0.008630		0.010586
			EFFICIENCY	99.24		99.70
10	8	4	1	0.215665	3	0.128523
			3	0.220039	5	0.180447
			6	0.235010	7	0.184141
			8	0.329286	8	0.519837
			BIAS CORR	0.835418		
			VAR CCEFF	0.008713		0.010622
			EFFICIENCY	98.28		99.36
10	8	3	1	0.245455	4	0.196562
			4	0.335512	6	0.223741
			8	0.419033	8	0.582336
			BIAS CORR	0.836419		
			VAR CCEFF	0.008923		0.010687
			EFFICIENCY	95.97		98.76
10	8	2	2	0.443027	5	0.344015
			8	0.556973	8	0.644109
			BIAS CORR	0.877271		
			VAR CCEFF	0.009915		0.010886
			EFFICIENCY	86.37		96.95

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
10	8	1	6	1.000000	8	0.916504
			BIAS CORR	0.936184		
			VAR CCEFF	0.013029		0.012089
			EFFICIENCY	65.73		87.30
10	7	7	1	0.192327	1	0.022530
			2	0.093698	2	0.041415
			3	0.091275	3	0.065082
			4	0.086777	4	0.075744
			5	0.093745	5	0.105008
			6	0.093636	6	0.120493
			7	0.348542	7	0.648370
			BIAS CORR	0.800422		
			VAR CCEFF	0.008984		0.012107
			EFFICIENCY	100.00		100.00
			EFF(M/N)	89.02		69.49
10	7	5	1	0.192773	2	0.058010
			2	0.093745	3	0.065047
			3	0.130120	4	0.075791
			5	0.140577	5	0.104974
			6	0.092798	6	0.120631
			7	0.349986	7	0.648656
			BIAS CORR	0.800771		
			VAR CCEFF	0.009004		0.012113
			EFFICIENCY	99.77		99.95
10	7	5	1	0.193275	2	0.084097
			2	0.093583	4	0.113000
			3	0.130752	5	0.104585
			5	0.187279	6	0.121567
			7	0.395111	7	0.648874
			BIAS CORR	0.800410		
			VAR CCEFF	0.009025		0.012128
			EFFICIENCY	99.54		99.82
10	7	4	1	0.224290	3	0.146413
			3	0.190323	5	0.146232
			5	0.188153	6	0.119485
			7	0.397234	7	0.651629

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
10	7	3	1	0.254256	2	0.146904
			4	0.296551	5	0.206393
			7	0.449193	7	0.710566
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
10	7	2	2	0.409595	4	0.279187
			7	0.590405	7	0.771784
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
10	7	1	6	1.000000	7	0.985931
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
10	6	6	1	0.203714	1	0.025762
			2	0.100705	2	0.051252
			3	0.092871	3	0.068185
			4	0.096335	4	0.097627
			5	0.095105	5	0.114382
			6	0.411189	6	0.792656
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		
10	6	5	1	0.204113	2	0.070233
			2	0.101161	3	0.068147
			3	0.092567	4	0.097692
			4	0.141984	5	0.114349
			6	0.460175	6	0.783148
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	0.204677	2	0.097568
			2	0.138631	4	0.136683
			4	0.195002	5	0.113944
			6	0.461689	6	0.784363
			BIAS CORR	0.765876		
			VAR CCEFF	0.009583		0.014224
			EFFICIENCY	79.46		99.83
10	6	3	1	0.239497	2	0.097741
			3	0.243304	4	0.191009
			6	0.517199	6	0.843599
			BIAS CORR	0.767873		
			VAR CCEFF	0.009684		0.014255
			EFFICIENCY	98.42		99.61
10	6	2	1	0.330721	4	0.259767
			6	0.669279	6	0.849152
			BIAS CORR	0.780692		
			VAR CCEFF	0.010211		0.014358
			EFFICIENCY	93.34		98.90
10	6	1	6	1.000000	6	1.068166
			BIAS CORR	0.936184		
			VAR CCEFF	0.013029		0.014863
			EFFICIENCY	73.15		95.52
10	5	5	1	0.219471	1	0.031488
			2	0.106641	2	0.058175
			3	0.102353	3	0.087512
			4	0.099910	4	0.109718
			5	0.471624	5	0.927462
			BIAS CORR	0.725868		
			VAR CCEFF	0.010261		0.017169
10	5	4	EFFICIENCY	100.00		100.00
			EFF (M/N)	77.95		49.00
			1	0.220060	2	0.081385
			2	0.106737	3	0.087481
			3	0.147120	4	0.110007
			5	0.526083	5	0.928046

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
10	5	3		BIAS CORR		
				VAR COEFF		0.017181
				EFFICIENCY		99.93
			1	0.255626	2	0.116513
			3	0.215215	4	0.160106
			5	0.529159	5	0.929147
		2		BIAS CORR		
				VAR COEFF		0.017208
				EFFICIENCY		99.77
			1	0.320395	3	0.203536
			5	0.674605	5	0.990864
10	5	1		BIAS CORR		
				VAR COEFF		0.017262
				EFFICIENCY		99.46
			5	1.000000	5	1.157476
				BIAS CORR		
		4		VAR COEFF		0.017612
				EFFICIENCY		97.48
			5	0.863744		
				BIAS CORR		
				VAR COEFF		
10	4	4		EFFICIENCY		
			1	0.240790	1	0.038561
			2	0.117535	2	0.074203
			3	0.110085	3	0.105109
			4	0.531590	4	1.042723
		3		BIAS CORR		
				VAR COEFF		0.021707
				EFFICIENCY		100.00
				EFFICIENCY		38.76
			1	0.241606	2	0.102716
10	4	3		BIAS CORR		
				VAR COEFF		0.105084
				EFFICIENCY		1.043542
			2	0.162188	3	
			4	0.596706	4	
		2		BIAS CORR		
				VAR COEFF		0.021726
				EFFICIENCY		99.91
			1	0.315869	2	0.144953
			4	0.684131	4	1.155188
10	4	2		BIAS CORR		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.011520 97.93 0.021764 99.74
10	4	1	4	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	4	1.266925 0.021990 98.71
10	3	3	1	0.273183	1	0.051304
			2	0.131905	2	0.096667
			3	0.594912	3	1.297017
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.628256 0.012822 100.00 28.53
10	3	2	1	0.317580	2	0.134539
			3	0.682420	3	1.298242
				BIAS CORR VAR CCEFF EFFICIENCY		0.630619 0.012918 99.26 0.029522 99.89
10	3	1	3	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	3	1.413790 0.029652 99.45
10	2	2	1	0.328460	1	0.075049
			2	0.671540	2	1.986062
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.561662 0.015495 100.00 18.36
10	2	1	2	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	2	1.643544 0.049897 99.84
10	1	1	1	1.000000 BIAS CORR	1	2.149872



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.459723	1	0.244614
			2	0.540277	2	0.774364
		BIAS CORR		0.918019		
				0.032256		0.035803
				100.00		100.00
				100.00		100.00
2	2	1	2	1.000000	2	0.951824
			BIAS CORR	1.050614		
			VAR CCEFF	0.042006		0.038056
			EFFICIENCY	76.79		94.08
2	1	1	1	1.000000	1	1.312008
			BIAS CORR	0.762191		
			VAR CCEFF	0.045723		0.078705
			EFFICIENCY	100.00		100.00
			EFF(M/N)	70.55		45.49
3	3	3	1	0.319711	1	0.116553
			2	0.282679	2	0.272793
			3	0.397610	3	0.599028
		BIAS CORR		0.923046		
			VAR CCEFF	0.021440		0.022958
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
3	3	2	1	0.455215	2	0.351113
			3	0.544785	3	0.607115
		BIAS CORR		0.974410		
			VAR CCEFF	0.022783		0.023313
			EFFICIENCY	94.11		98.48
3	3	1	2	1.000000	3	0.891780
			BIAS CORR	0.909138		
			VAR CCEFF	0.030113		0.026157
			EFFICIENCY	71.20		87.63
3	2	2	1	0.350026	1	0.172778
			2	0.619974	2	0.969099
		BIAS CORR		0.825372		
			VAR CCEFF	0.025768		0.035647

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		64.40
3	2	1	2	1.000000	2	1.099943
				BIAS CORR		0.909138
				VAR CCEFF		0.030113
				EFFICIENCY		85.57
3	1	1	1	1.000000	1	1.451975
				BIAS CORR		0.688717
				VAR CCEFF		0.037332
				EFFICIENCY		100.00
				EFF(M/N)		57.43
4	4	4	1	0.252798	1	0.069526
			2	0.196806	2	0.153208
			3	0.233901	3	0.257682
			4	0.316435	4	0.491966
				BIAS CORR		0.925517
				VAR CCEFF		0.016045
				EFFICIENCY		100.00
				EFF(M/N)		100.00
4	4	3	1	0.330161	2	0.201665
			3	0.345949	3	0.258694
			4	0.323890	4	0.494745
				BIAS CORR		0.930564
				VAR CCEFF		0.016474
				EFFICIENCY		97.37
4	4	2	2	0.546729	3	0.410330
			4	0.453271	4	0.510405
				BIAS CORR		0.983632
				VAR CCEFF		0.018189
				EFFICIENCY		88.21
4	4	1	3	1.000000	4	0.857331
				BIAS CORR		0.986178
				VAR CCEFF		0.023429
				EFFICIENCY		68.48

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.284453	1	0.092567
			2	0.218911	2	0.201671
			3	0.496635	3	0.783694
		BIAS CORR		0.854238		
				0.018112		0.022854
				100.00		100.00
				88.59		73.75
4	3	2	1	0.371557	2	0.266673
			3	0.628443	3	0.789007
				0.857896		
		BIAS CORR		0.018645		0.023036
				97.14		99.21
4	3	1	3	1.000000	2	1.014016
				0.986178		
				0.023429		0.024090
		BIAS CORR		77.30		94.87
4	2	2	1	0.343744	1	0.136618
			2	0.656256	2	1.096552
				0.766383		
		BIAS CORR		0.022127		0.035604
				100.00		100.00
				72.51		47.34
4	2	1	2	1.000000	2	1.201782
				0.832098		
				0.024926		0.036001
		BIAS CORR		88.77		98.90
4	1	1	1	1.000000	1	1.560249
				0.640923		
				0.032331		0.078705
		BIAS CORR		100.00		100.00
				49.63		21.42
5	5	5	1	0.213129	1	0.046745
			2	0.152020	2	0.095777
			3	0.171068	3	0.159188
			4	0.199843	4	0.237233

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			5	0.263940	5	0.419562
			BIAS CORR	0.927090		
			VAR CCEFF	0.012814		0.013303
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.216023	2	0.133269
			2	0.231841	3	0.159376
			4	0.284746	4	0.237810
			5	0.267390	5	0.420764
			BIAS CORR	0.927565		
			VAR CCEFF	0.013011		0.013343
			EFFICIENCY	98.48		99.70
5	5	3	1	0.273924	2	0.206718
			3	0.381378	4	0.316894
			5	0.344698	5	0.425582
			BIAS CORR	0.926398		
			VAR CCEFF	0.013337		0.013514
			EFFICIENCY	96.08		98.44
5	5	2	2	0.545597	3	0.406525
			5	0.454403	5	0.525504
			BIAS CORR	0.970321		
			VAR CCEFF	0.014942		0.014005
			EFFICIENCY	85.75		94.99
5	5	1	3	1.000000	5	0.834163
			BIAS CORR	0.910207		
			VAR CCEFF	0.019452		0.017274
			EFFICIENCY	65.87		77.02
5	4	4	1	0.232709	1	0.058460
			2	0.165292	2	0.124258
			3	0.184587	3	0.196421
			4	0.417412	4	0.664390
			BIAS CORR	0.870784		
			VAR CCEFF	0.014008		0.016787
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.47		79.25



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.236112	2	0.166262
			2	0.251698	3	0.196790
			4	0.512190	4	0.666643
			BIAS CORR	0.870501		
			VAR CCEFF	0.014239		0.016850
			EFFICIENCY	98.38		99.63
		2	1	0.366680	2	0.257666
			4	0.633320	4	0.770635
			BIAS CORR	0.878905		
			VAR CCEFF	0.015003		0.017111
			EFFICIENCY	93.37		98.11
5	4	1	3	1.000000	4	0.964482
			BIAS CORR	0.910207		
			VAR CCEFF	0.019452		0.018295
			EFFICIENCY	72.02		91.76
5	3	3	1	0.265005	1	0.077649
			2	0.185996	2	0.163384
			3	0.548999	3	0.906926
			BIAS CORR	0.805416		
			VAR CCEFF	0.016010		0.022819
			EFFICIENCY	100.00		100.00
			EFF(M/N)	80.04		58.30
5	3	2	1	0.332961	2	0.215413
			3	0.667039	3	0.910620
			BIAS CORR	0.808967		
			VAR CCEFF	0.016311		0.022929
			EFFICIENCY	98.16		99.52
5	3	1	3	1.000000	2	1.098652
			BIAS CORR	0.910207		
			VAR CCEFF	0.019452		0.023479
			EFFICIENCY	82.31		97.19
5	2	2	1	0.322878	1	0.114330
			2	0.677122	2	1.193166
			BIAS CORR	0.723884		
			VAR CCEFF	0.019702		0.035585

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				65.04		37.38
				EFFICIENCY		
				EFF(M/N)		
5	2	1	2	1.000000	2	1.282010
				BIAS CORR		
				0.780025		
				VAR CCEFF		0.035825
				0.021797		99.33
				EFFICIENCY		
				90.39		
5	1	1	1	1.000000	1	1.649762
				BIAS CORR		
				0.606148		
				VAR CCEFF		0.078705
				0.028917		100.00
				EFFICIENCY		16.90
				100.00		
				EFF(M/N)		
				44.31		
6	6	6	1	0.186616	1	0.033859
			2	0.124673	2	0.070839
			3	0.135320	3	0.109928
			4	0.151619	4	0.155990
			5	0.174793	5	0.218063
			6	0.226779	6	0.367100
				BIAS CORR		
				0.927995		
				VAR CCEFF		0.010983
				0.010664		100.00
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		
				100.00		
6	6	5	1	0.188047	2	0.095570
			2	0.183575	3	0.109943
			4	0.223571	4	0.156174
			5	0.175977	5	0.218387
			6	0.228830	6	0.367705
				BIAS CORR		
				0.929223		
				VAR CCEFF		0.011002
				0.010758		99.83
				EFFICIENCY		
				99.13		
6	6	4	1	0.231452	2	0.142795
			3	0.290430	4	0.214244
			5	0.246803	5	0.219325
			6	0.231315	6	0.369652
				BIAS CORR		
				0.931262		
				VAR CCEFF		0.011014
				0.010892		99.27
				EFFICIENCY		
				97.91		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
6	6	3	1	0.280361	3	0.265826
			4	0.419926	5	0.292572
			6	0.299713	6	0.374095
		BIAS CORR		0.933424		
				0.011304		0.011209
				94.34		97.98
6	6	2	2	0.447229	4	0.448109
			5	0.552771	6	0.464620
				0.925091		
		BIAS CORR		0.012667		0.011684
				84.19		94.00
6	6	1	4	1.000000	5	0.931202
				0.962716		
				0.016311		0.014937
		BIAS CORR		65.38		73.53
6	5	5	1	0.200023	1	0.040672
			2	0.133353	2	0.084869
			3	0.144376	3	0.131330
			4	0.160699	4	0.184821
			5	0.361543	5	0.580110
		BIAS CORR		0.881479		
				0.011436		0.013257
				100.00		100.00
		EFFICIENCY		93.25		82.85
6	5	4	1	0.201667	2	0.114615
			2	0.196308	3	0.131391
			4	0.237588	4	0.185100
			5	0.364438	5	0.581216
				0.882387		
		BIAS CORR		0.011543		0.013283
				99.07		99.80
		EFFICIENCY				
6	5	3	1	0.248296	2	0.171231
			3	0.309919	4	0.254753
			5	0.441785	5	0.584637
		BIAS CORR		0.884039		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				0.011695		0.013372
				97.79		99.14
				VAR CCEFF		
				EFFICIENCY		
6	5	2	2	0.447229	3	0.318286
			5	0.552771	5	0.676991
				BIAS CORR		
				0.925091		
				VAR CCEFF		0.013579
				0.012667		97.63
				EFFICIENCY		
				90.28		
6	5	1	4	1.000000	5	0.931202
				0.962716		
				BIAS CORR		0.014937
				0.016311		88.75
				VAR CCEFF		
				70.11		
				EFFICIENCY		
6	4	4	1	0.220466	1	0.050788
			2	0.146317	2	0.105659
			3	0.157173	3	0.161952
			4	0.076044	4	0.782508
				BIAS CORR		
				0.829231		
				VAR CCEFF		0.016761
				0.012625		100.00
				EFFICIENCY		65.53
				100.00		
				EFF(M/N)		
				84.47		
6	4	3	1	0.222435	2	0.142871
			2	0.215012	3	0.162140
			4	0.562533	4	0.784280
				BIAS CORR		
				0.829764		
				VAR CCEFF		0.016803
				0.012752		99.75
				EFFICIENCY		
				99.00		
6	4	2	1	0.326465	2	0.213039
			4	0.673535	4	0.874711
				BIAS CORR		
				0.837492		
				VAR CCEFF		0.016938
				0.013214		98.96
				EFFICIENCY		
				95.54		
6	4	1	4	1.000000	4	1.038728
				0.962716		
				BIAS CORR		0.017599
				0.016311		95.24
				VAR CCEFF		
				77.40		
				EFFICIENCY		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE	
6	3	3	1	0.252572	1	0.067361	
			2	0.165682	2	0.132814	
			3	0.581746	3	1.000471	
		BIAS CORR		0.768038			
		VAR CCEFF		0.014514		0.022803	
		EFFICIENCY		100.00		100.00	
		EFF(M/N)		73.47		48.17	
6	3	2	1	0.310231	2	0.188304	
			3	0.684769	3	1.003187	
		BIAS CORR		0.771280			
		VAR CCEFF		0.014715		0.022877	
		EFFICIENCY		98.64		99.68	
6	3	1	3	1.000000	3	1.165912	
			BIAS CORR		0.857697		
			VAR CCEFF		0.017078		0.023215
			EFFICIENCY		84.49		98.22
6	2	2	1	0.309303	1	0.095030	
			2	0.640697	2	1.271804	
		BIAS CORR		0.691067			
		VAR CCEFF		0.017935		0.035576	
		EFFICIENCY		100.00		100.00	
		EFF(M/N)		59.46		30.87	
6	2	1	2	1.000000	2	1.349183	
			BIAS CORR		0.741189		
			VAR CCEFF		0.019632		0.035736
			EFFICIENCY		91.35		99.55
6	1	1	1	1.000000	1	1.726659	
			BIAS CORR		0.579140		
			VAR CCEFF		0.026398		0.012705
			EFFICIENCY		100.00		100.00
			EFF(M/N)		40.40		13.95
7	7	7	1	0.167492	1	0.025806	
			2	0.106793	2	0.053241	
			3	0.112286	3	0.081214	
			4	0.122529	4	0.112303	

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 5.00

N	M	L	I	LOCATION	I	SCALE
10	7	6	5	0.136329	5	0.149476
			6	0.155586	6	0.201271
			7	0.177491	7	0.327191
			BIAS CORR	0.920916		
			VAN CORR	0.004132		0.004132
			EFFICIENCY	100.00		100.00
			EFFIM/91	100.00		100.00
10	7	5	1	0.140319	1	0.072353
			2	0.153256	2	0.081100
			3	0.165419	3	0.112376
			4	0.176022	4	0.145919
			5	0.184976	5	0.201476
			6	0.210497	6	0.327191
			BIAS CORR	0.927916		
10	7	4	1	0.140319		0.004132
			2	0.153256		99.99
			3	0.165419		
			4	0.176022		
			5	0.184976		
			6	0.210497		
			BIAS CORR	0.927916		
10	7	3	1	0.140319		0.004132
			2	0.153256		99.99
			3	0.165419		
			4	0.176022		
			5	0.184976		
			6	0.210497		
			BIAS CORR	0.927916		
10	7	2	1	0.140319		0.004132
			2	0.153256		99.99
			3	0.165419		
			4	0.176022		
			5	0.184976		
			6	0.210497		
			BIAS CORR	0.927916		
10	7	1	1	0.140319		0.004132
			2	0.153256		99.99
			3	0.165419		
			4	0.176022		
			5	0.184976		
			6	0.210497		
			BIAS CORR	0.927916		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
7	7	2	2	0.545765	2	0.476709
			6	0.554735	2	0.479050
			BIAS CORR	0.728107		
			VAN COEFF	0.010947		0.010007
			EFFICIENCY	83.44		92.19
7	7	1	5	1.000000	1	0.490816
			BIAS CORR	1.001684		
			VAN COEFF	0.014749		0.017745
			EFFICIENCY	64.98		73.36
7	6	6	1	0.177100	1	0.030171
			2	0.112419	1	0.067147
			3	0.118910	2	0.044418
			4	0.129114	4	0.130403
			5	0.167150	1	0.112411
			6	0.119771	1	0.510714
			BIAS CORR	0.880718		
			VAN COEFF	0.009648		0.010947
			EFFICIENCY	100.00		100.00
			EFFICIENCY	94.44		84.17
7	6	6	1	0.170744	2	0.000000
			2	0.167052	2	0.044418
			4	0.174204	4	0.130403
			5	0.183151	1	0.112411
			6	0.171471	1	0.510714
			BIAS CORR	0.840107		
			VAN COEFF	0.009129		0.010947
			EFFICIENCY	99.17		97.88
7	6	6	1	0.179664	1	0.173914
			2	0.143700	4	0.130403
			4	0.211490	1	0.112411
			6	0.145444	1	0.510714
			BIAS CORR	0.888607		
			VAN COEFF	0.009400		0.010007
			EFFICIENCY	98.97		97.54
7	6	1	1	0.754315	1	0.774711

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L		LOCATION		SCALE
4	6	2	4	0.391581	9	0.238979
			6	0.394087	8	0.922754
			BIAS CORR	0.076517		
			VAN CLEFT	0.010027		0.011099
			EFFICIENCY	96.31		98.74
7	6	2	7	0.445269	4	0.360950
			6	0.444735	6	0.607164
			BIAS CORR	0.028107		
			VAN CLEFT	0.010792		0.011312
			EFFICIENCY	98.35		96.89
7	6	3	7	1.000000	6	0.406816
			BIAS CORR	1.000000		
			VAN CLEFT	0.013760		0.012749
			EFFICIENCY	67.46		89.71
1	9	5	1	0.151517	1	0.037210
			7	0.171089	2	0.074781
			3	0.171573	3	0.113016
			4	0.171860	4	0.154511
			6	0.172080	5	0.697769
			BIAS CORR	0.049167		
			VAN CLEFT	0.010881		0.011211
			EFFICIENCY	100.00		100.00
			EFFICIENCY	97.36		70.61
7	9	4	1	0.177659	7	0.101101
			7	0.176574	1	0.111009
			4	0.200373	4	0.196093
			6	0.176500	5	0.697769
			BIAS CORR	0.048101		
7	9	3	1	0.010470		0.011281
			VAN CLEFT	0.010470		97.85
			EFFICIENCY	97.36		
7	9	1	1	0.211270	1	0.147740
			3	0.210103	4	0.216097
			5	0.695377	5	0.697769
			BIAS CORR	0.048101		
			VAN CLEFT	0.010419		0.011311
			EFFICIENCY	98.46		97.45



TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
7	9	2	1	0.322029	2	0.269367
			5	0.477929	5	0.778374
			BIAS CORR	0.498541		
			VAR CORR	0.011277		0.013410
			EFFICIENCY	92.68		99.97
7	5	1	5	1.666000	5	0.448319
			BIAS CORR	1.001404		
			VAR CORR	0.014249		0.014200
			EFFICIENCY	73.35		43.77
7	4	4	1	0.212107	1	0.049100
			2	0.133565	2	0.047577
			3	0.137617	3	0.135777
			4	0.914916	4	0.873152
			BIAS CORR	0.754084		
			VAR CORR	0.011694		0.016748
			EFFICIENCY	100.00		100.00
			EFFICIENCY	78.75		99.87
			1	0.213665	2	0.126072
			2	0.137177	1	0.135270
7	4	1	4	0.846631	4	0.874956
			BIAS CORR	0.796830		
			VAR CORR	0.011676		0.016776
			EFFICIENCY	99.29		99.87
7	4	2	1	0.302564	2	0.181707
			4	0.647436	4	0.454653
			BIAS CORR	0.803793		
			VAR CORR	0.011777		0.016861
			EFFICIENCY	96.66		97.31
7	4	1	4	1.666000	4	1.041786
			BIAS CORR	0.410799		
			VAR CORR	0.014334		0.011286
			EFFICIENCY	80.96		76.84
7	3	1	1	0.243714	1	0.084789
			2	0.191884	2	0.121483

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
7	3	2	1	0.654737	1	1.071377
			2	0.718019	2	0.022744
			3	0.013376	3	100.00
			4	100.00	4	41.02
			5	68.26	5	
7	3	2	1	0.275124	1	0.165471
			2	0.704971	2	1.071377
			3	0.740974	3	0.022744
			4	0.013521	4	100.00
			5	48.71	5	41.02
7	3	1	1	1.000000	1	1.222641
			2	0.817701	2	0.022744
			3	0.013437	3	100.00
			4	46.65	4	41.02
			5		5	
7	2	2	1	0.277760	1	0.081741
			2	0.700240	2	1.222641
			3	0.444444	3	0.022744
			4	0.014571	4	100.00
			5	100.00	5	76.74
7	2	1	1	1.000000	1	1.407451
			2	0.716565	2	0.022744
			3	0.014014	3	100.00
			4	47.00	4	41.02
			5		5	
7	1	1	1	1.000000	1	1.744541
			2	0.857745	2	0.022744
			3	0.024440	3	100.00
			4	100.00	4	11.00
			5	37.32	5	
8	3	3	1	0.152480	1	0.022744
			2	0.071111	2	0.041470
			3	0.046745	3	0.067404
			4	0.173004	4	0.083572
			5	0.117141	5	0.111004
			6	0.127551	6	0.142451

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)  
SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION		I	SCALE	
			7	0.140371		7	0.106770	
			8	0.178701		8	0.295720	
			BIAS CORR		0.928955			
			VAR CORR		0.007902		0.008130	
			EFFICIENCY		100.00		100.00	
			EFF (M/N)		100.00		100.00	
		7	1	0.153529		2	0.052792	
			2	0.053320		3	0.062771	
			3	0.143448		4	0.089947	
			4	0.145721		5	0.111341	
			5	0.174127		6	0.143084	
			6	0.140967		7	0.182880	
			8	0.178814		8	0.245424	
			BIAS CORR		0.727409			
			VAR CORR		0.00011		0.002144	
			EFFICIENCY		47.61		47.41	
		6	1	0.154146		2	0.082748	
			2	0.172091		3	0.170847	
			3	0.211017		4	0.111327	
			4	0.178277		5	0.143414	
			5	0.141704		6	0.187177	
			8	0.174708		8	0.276446	
			BIAS CORR		0.727788			
			VAR CORR		0.008092		0.008190	
			EFFICIENCY		47.11		47.15	
		5	1	0.184856		2	0.148580	
			2	0.204247		3	0.190076	
			3	0.273106		4	0.143468	
			4	0.174776		5	0.187479	
			8	0.140814		8	0.247131	
			BIAS CORR		0.411191			
			VAR CORR		0.008114		0.008140	
			EFFICIENCY		48.37		47.37	
		4	1	0.148909		2	0.145576	
			2	0.248681		3	0.239771	
			3	0.324227		4	0.245400	
			8	0.278744		8	0.275670	

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

n	M	L	I	LOCATION	I	SCALE
8	8	3		BIAS CORR		
				VAN COEFF		0.008298
				EFFICIENCY		98.55
		4	1	0.252723	4	0.310028
			5	0.458154	7	0.305437
			8	0.278921	8	0.300153
		5		BIAS CORR		
				VAN COEFF		0.008445
				EFFICIENCY		96.36
		6	3	0.499852	5	0.478437
			7	0.900148	6	0.432437
				BIAS CORR		
		7		VAN COEFF		0.008900
				EFFICIENCY		91.54
8	8	1	5	1.000000	1	0.987717
				BIAS CORR		
				VAN COEFF		0.011154
				EFFICIENCY		72.00
		2	1	0.140471	1	0.021148
			2	0.097604	2	0.047553
			3	0.100483	3	0.071722
		3	4	0.107618	4	0.097101
			5	0.117110	5	0.126848
			6	0.128741	6	0.161158
			7	0.281231	7	0.467904
		4		BIAS CORR		
				VAN COEFF		0.009174
				EFFICIENCY		100.00
		5		EFF (M/N)		99.79
8	7	6	1	0.171121	7	0.045031
			2	0.097818	2	0.071844
			3	0.150178	4	0.097181
		7	5	0.171117	5	0.127402
			6	0.178749	6	0.161528
			7	0.288404	7	0.467860
		8		BIAS CORR		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

n	M	L	I	LOCATION		SCALE	
10	7	5					
10	7	4					
10	7	3					
10	7	2					
10	7	1					
10	6	6					

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
4	6	9	4	0.114663	4	0.113773
			5	0.123334	5	0.145646
			6	0.386192	6	0.624238
			BIAS CORR		0.056979	
			VAR COEFF		0.068929	
			EFFICIENCY		100.00	
			EFF (M/L)		89.39	
6	6	9	1	0.171499	2	0.076163
			2	0.164332	3	0.082836
			3	0.157484	4	0.113846
			4	0.143028	5	0.145727
			5	0.381457	6	0.624800
			BIAS CORR		0.057181	
			VAR COEFF		0.068948	
			EFFICIENCY		99.56	
8	6	4	1	0.172499	2	0.104627
			2	0.148784	4	0.160919
			4	0.237264	5	0.145727
			6	0.441497	6	0.626232
			BIAS CORR		0.057503	
			VAR COEFF		0.069014	
			EFFICIENCY		99.06	
10	6	3	1	0.208446	2	0.147699
			3	0.205018	3	0.209998
			4	0.506936	6	0.626829
			BIAS CORR		0.059910	
			VAR COEFF		0.069162	
			EFFICIENCY		97.46	
			EFF (M/L)		99.17	
12	6	2	2	0.349112	4	0.311004
			6	0.606888	6	0.706207
			BIAS CORR		0.075210	
			VAR COEFF		0.069821	
			EFFICIENCY		90.91	
			EFF (M/L)		97.93	
			EFF (M/L)		97.93	
14	6	1	9	1.000000	6	0.968603
			BIAS CORR		0.050577	
			VAR COEFF		0.012523	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		
				71.30		91.22
6	5	5	1	0.185512	1	0.032769
			2	0.112201	2	0.066122
			3	0.115930	3	0.100227
			4	0.122346	4	0.133757
			5	0.464003	5	0.780310
				BIAS CORR		
				0.815637		
				VAR COEFF		0.013227
				100.00		100.00
				EFFICIENCY		61.53
6	5	4	1	0.186333	2	0.090680
			2	0.112527	3	0.100711
			3	0.172180	4	0.133867
			5	0.528760	5	0.781056
				BIAS CORR		
				0.815704		
				VAR COEFF		0.013242
				EFFICIENCY		99.69
6	5	3	1	0.223040	2	0.131224
			3	0.244348	4	0.190400
			5	0.512612	5	0.782932
				BIAS CORR		
				0.818572		
				VAR COEFF		0.013278
				EFFICIENCY		99.61
6	5	2	1	0.297300	2	0.232445
			5	0.702700	5	0.896475
				BIAS CORR		
				0.828700		
				VAR COEFF		0.013350
				EFFICIENCY		99.03
6	5	1	5	1.000000	5	1.091443
				BIAS CORR		
				0.950577		
				VAR COEFF		0.013854
				EFFICIENCY		99.44
6	4	4	1	0.206006	1	0.040680
			2	0.124407	2	0.082844
			3	0.126869	3	0.122700

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L		LOCATION		SCALE
6	4	3	4	0.542719	4	0.947019
			BIAS CORR	0.768690		
			VAR COEFF	0.015784		0.016741
			EFFICIENCY	100.00		100.00
			EFF(M/N)	74.01		48.61
6	4	3	1	0.267003	2	0.113359
			2	0.176335	3	0.122775
			4	0.616162	4	0.946173
			BIAS CORR	0.779465		
			VAR COEFF	0.010843		0.016723
6	4	2	1	0.286516	2	0.163124
			4	0.713454	4	1.014820
			BIAS CORR	0.775820		
			VAR COEFF	0.011085		0.016019
			EFFICIENCY	97.29		99.54
6	4	1	4	1.000000	4	1.146164
			BIAS CORR	0.870941		
			VAR COEFF	0.012984		0.017117
			EFFICIENCY	83.06		97.80
6	3	3	1	0.237545	1	0.053448
			2	0.141791	2	0.108456
			3	0.620664	3	1.140563
			BIAS CORR	0.713086		
			VAR COEFF	0.012471		0.022788
6	3	2	1	0.284328	2	0.144021
			3	0.715672	3	1.142220
			BIAS CORR	0.715812		
			VAR COEFF	0.012587		0.022628
			EFFICIENCY	99.08		99.83
6	3	1	3	1.000000	3	1.272139
			BIAS CORR	0.786078		
			VAR COEFF	0.014208		0.022444



TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		
				87.77		99.11
0	2	2	1	0.292683	1	0.079143
			2	0.707317	2	1.396947
				BIAS CORR		
				0.642473		
				VAR COEFF		0.037267
				EFFICIENCY		100.00
				EFF(M/N)		22.88
0	2	1	2	1.000000	2	1.459187
				BIAS CORR		
				0.685313		
				VAR COEFF		0.035653
				EFFICIENCY		99.76
0	1	1	1	1.000000	1	1.855459
				BIAS CORR		
				0.938950		
				VAR COEFF		0.078705
				EFFICIENCY		100.00
				EFF(M/N)		10.34
4	4	4	1	0.141459	1	0.016601
			2	0.093197	2	0.033631
			3	0.084467	3	0.050255
			4	0.088984	4	0.067612
			5	0.095464	5	0.086779
			6	0.103450	6	0.108783
			7	0.113773	7	0.136155
			8	0.128002	8	0.174236
			9	0.161701	9	0.270207
				BIAS CORR		
				0.929209		
				VAR COEFF		0.007204
				EFFICIENCY		100.00
				EFF(M/N)		100.00
4	4	0	1	0.141855	2	0.046153
			2	0.083272	3	0.050219
			3	0.124326	4	0.067641
			4	0.143100	5	0.086764
			6	0.103100	6	0.108863
			7	0.114587	7	0.136194
			8	0.128068	8	0.174325

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
9	9	7	9	0.161690	9	0.270337
			BIAS CORR	0.929722		
			VAR CCEFF	0.007109		0.007207
			EFFICIENCY	99.72		99.95
			1	0.142204	2	0.066067
			2	0.117332	4	0.096406
			4	0.103652	6	0.086561
			6	0.102114	8	0.109306
			7	0.113497	7	0.126046
			8	0.129164	8	0.174629
9	9	6	9	0.162075	9	0.270619
			BIAS CORR	0.930434		
			VAR CCEFF	0.007133		0.007216
			EFFICIENCY	99.38		99.84
			1	0.142899	2	0.066169
			2	0.117888	4	0.138060
			4	0.104607	6	0.152684
			6	0.215769	7	0.135906
			8	0.176133	8	0.175216
			9	0.162705	9	0.271186
9	9	5	BIAS CORR	0.929138		
			VAR CCEFF	0.007170		0.007233
			EFFICIENCY	98.87		99.60
			1	0.170614	3	0.118999
			3	0.180361	5	0.174129
			5	0.194048	7	0.187749
			7	0.246161	8	0.175026
			9	0.203816	9	0.272366
			BIAS CORR	0.927853		
			VAR CCEFF	0.007244		0.007261
9	9	4	EFFICIENCY	97.86		99.21
			1	0.197022	4	0.186152
			4	0.298556	6	0.230159
			7	0.296801	8	0.233433
			9	0.207621	9	0.274568
			BIAS CORR	0.932139		
			VAR CCEFF	0.007383		0.007331

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				96.01		98.27
			EFFICIENCY			
9	9	3	1	0.231667	4	0.240749
			5	0.397711	7	0.350481
			8	0.371022	9	0.335211
			BIAS CORR	0.908369		
			VAR CCEFF	0.007830		0.007494
			EFFICIENCY	90.54		96.13
9	9	2	3	0.498609	6	0.501925
			8	0.501391	9	0.397623
			BIAS CORR	0.953332		
			VAR CCEFF	0.008665		0.007928
			EFFICIENCY	81.82		90.86
9	9	1	6	1.000000	8	0.872689
			BIAS CORR	0.982163		
			VAR CCEFF	0.011216		0.010045
			EFFICIENCY	63.19		71.71
9	8	8	1	0.147446	1	0.018669
			2	0.086757	2	0.037944
			3	0.087771	3	0.056117
			4	0.093035	4	0.076688
			5	0.098793	5	0.096477
			6	0.107707	6	0.122346
			7	0.117401	7	0.151260
			8	0.261091	8	0.427672
			BIAS CORR	0.898611		
			VAR CCEFF	0.007390		0.008119
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.93		88.73
9	8	7	1	0.147879	7	0.052029
			2	0.086844	3	0.056080
			3	0.129459	4	0.076725
			5	0.148615	5	0.096469
			6	0.107355	6	0.122445
			7	0.118267	7	0.151312
			8	0.261581	8	0.427906
			BIAS CORR	0.899051		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.007412 99.70
						0.008123 99.55
9	8	6	1	0.148253	2	0.074277
			2	0.122250	4	0.106862
			4	0.191251	5	0.096257
			6	0.158105	6	0.122954
			7	0.117095	7	0.151164
			8	0.263045	8	0.428540
				BIAS CORR		
				VAR CCEFF		0.008133
				EFFICIENCY		99.82
9	8	5	1	0.148994	2	0.074410
			2	0.122843	4	0.155220
			4	0.192268	6	0.171233
			6	0.223832	7	0.151044
			8	0.312062	8	0.429789
				BIAS CORR		
				VAR CCEFF		0.008154
				EFFICIENCY		99.56
9	8	4	1	0.178102	3	0.133948
			3	0.230484	5	0.200884
			6	0.275986	7	0.205482
			8	0.315428	8	0.430847
				BIAS CORR		
				VAR CCEFF		0.008192
				EFFICIENCY		99.11
9	8	3	1	0.231667	4	0.204608
			5	0.397311	6	0.257954
			8	0.371022	8	0.498153
				BIAS CORR		
				VAR CCEFF		0.008277
				EFFICIENCY		98.09
9	8	2	3	0.498609	5	0.387489
			8	0.501391	8	0.564556
				BIAS CORR		
				VAR CCEFF		0.008508

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				85.27		95.42
				EFFICIENCY		
9	8	1	6	1.000000	8	0.872689
				BIAS CORR		0.010045
				VAR CCEFF		80.82
				EFFICIENCY		
9	7	7	1	0.155627	1	0.021433
			2	0.091152	2	0.042792
			3	0.093432	3	0.065792
			4	0.096296	4	0.084597
			5	0.105203	5	0.112335
			6	0.111773	6	0.136956
			7	0.346517	7	0.569831
				BIAS CORR		0.009313
				VAR CCEFF		100.00
				EFFICIENCY		77.35
				EFF(M/N)		
9	7	6	1	0.156091	2	0.058967
			2	0.091252	3	0.065754
			3	0.136595	4	0.084644
			5	0.156788	5	0.112336
			6	0.111416	6	0.137077
			7	0.347858	7	0.570155
				BIAS CORR		0.009319
				VAR CCEFF		99.94
				EFFICIENCY		
9	7	5	1	0.156712	2	0.085072
			2	0.091313	4	0.122349
			3	0.137292	5	0.112111
			5	0.214410	6	0.137702
			7	0.400273	7	0.570707
				BIAS CORR		0.009333
				VAR CCEFF		99.79
				EFFICIENCY		
9	7	4	1	0.185882	2	0.152428
			3	0.196210	5	0.157495
			5	0.215469	6	0.136692

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			7	0.402440	7	0.573079
			BIAS CORR	0.868204		
			VAR CCEFF	0.007896		0.009361
			EFFICIENCY	98.78		99.49
9	7	3	1	0.215010	2	0.153115
			4	0.324424	5	0.228783
			7	0.460566	7	0.638555
			BIAS CORR	0.871671		
			VAR CCEFF	0.008061		0.009405
			EFFICIENCY	96.76		99.02
9	7	2	2	0.393109	4	0.204058
			7	0.606891	7	0.704485
			BIAS CORR	0.902798		
			VAR CCEFF	0.008739		0.009558
			EFFICIENCY	89.26		97.44
9	7	1	6	1.000000	7	0.945679
			BIAS CORR	0.982163		
			VAR CCEFF	0.011218		0.010432
			EFFICIENCY	69.53		89.27
9	6	6	1	0.166784	1	0.024794
			2	0.098080	2	0.051234
			3	0.097681	3	0.073101
			4	0.104921	4	0.102695
			5	0.109617	5	0.126524
			6	0.423415	6	0.708691
			BIAS CORR	0.830103		
			VAR CCEFF	0.008344		0.010926
			EFFICIENCY	100.00		100.00
			EFF(M/N)	84.96		65.93
9	6	5	1	0.166772	2	0.069953
			2	0.098565	3	0.073064
			3	0.097543	4	0.102762
			4	0.158036	5	0.126534
			6	0.479085	6	0.709207
			BIAS CORR	0.829934		
			VAR CCEFF	0.008371		0.010734

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.67
						99.93
9	6	4	1	0.167300	2	0.098974
			2	0.137675	4	0.144681
			4	0.214207	6	0.126300
			6	0.480818	6	0.710517
			BIAS CORR	0.830897		
			VAR CCEFF	0.008402		0.010952
			EFFICIENCY	99.30		99.77
9	6	3	1	0.200235	2	0.095225
			3	0.257688	4	0.205665
			6	0.542077	6	0.775424
			BIAS CORR	0.832961		
			VAR CCEFF	0.008509		0.010988
			EFFICIENCY	98.06		99.44
9	6	2	2	0.363720	4	0.276642
			6	0.636272	6	0.781894
			BIAS CORR	0.866459		
			VAR CCEFF	0.009037		0.011088
			EFFICIENCY	92.33		98.54
9	6	1	6	1.000000	6	1.018161
			BIAS CORR	0.982163		
			VAR CCEFF	0.011218		0.011629
			EFFICIENCY	74.38		93.96
9	5	5	1	0.181010	1	0.030082
			2	0.105391	2	0.053483
			3	0.107646	3	0.090946
			4	0.110975	4	0.118287
			5	0.494979	5	0.852210
			BIAS CORR	0.790550		
			VAR CCEFF	0.009080		0.013221
			EFFICIENCY	100.00		100.00
			EFF(M/N)	78.07		54.49
9	5	4	1	0.181627	2	0.082205
			2	0.105553	3	0.090917
			3	0.157454	4	0.118382

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
9	5	3	5	0.555366	5	0.852865
			BIAS CORR	0.790750		
			VAR CCEFF	0.009112		0.013237
			EFFICIENCY	99.66		95.91
			1	0.215531	2	0.118362
			3	0.225743	4	0.170604
			5	0.558726	5	0.854242
			BIAS CORR	0.793740		
			VAR CCEFF	0.009170		0.013259
			EFFICIENCY	99.02		99.71
9	5	2	1	0.280584	3	0.212267
			5	0.719416	5	0.920585
			BIAS CORR	0.202288		
			VAR CCEFF	0.009516		0.013314
			EFFICIENCY	95.42		99.30
			5	1.000000	5	1.097582
			BIAS CORR	0.911094		
			VAR CCEFF	0.011347		0.013670
			EFFICIENCY	80.02		96.72
			1	0.201340	1	0.037120
9	4	4	2	0.117531	2	0.075332
			3	0.117484	3	0.110153
			4	0.563646	4	1.009594
			BIAS CORR	0.45461		
			VAR CCEFF	0.00125		0.016736
			EFFICIENCY	100.00		100.00
			EFF (P/N)	70.02		43.04
			1	0.202128	2	0.103390
			2	0.164754	3	0.110135
			4	0.633118	4	1.010556
9	4	3	BIAS CORR	0.746253		
			VAR CCEFF	0.010170		0.016753
			EFFICIENCY	99.56		99.90
			1	0.274924	2	0.147246
			4	0.725076	4	1.075585



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	4	1	4	1.000000	4	1.192153
				0.838818		0.017014
				0.011972		98.36
				64.58		
9	3	3	1	0.232652	1	0.049296
			2	0.134150	2	0.098343
			3	0.633198	3	1.196378
				0.691878		0.022785
				0.011729		100.00
				100.00		31.62
				60.44		
9	3	2	1	0.276205	2	0.135645
			3	0.723795	3	1.197729
				0.694414		0.022816
				0.011824		99.86
				99.20		
9	3	1	3	1.000000	3	1.316296
				0.759707		0.022941
				0.013241		99.32
				88.58		
9	2	2	1	0.287225	1	0.072253
			2	0.712775	2	1.448955
				0.623632		0.035565
				0.014580		100.00
				100.00		20.26
				48.62		
9	2	1	2	1.000000	2	1.505894
				0.664058		0.035632
				0.015713		99.81
				92.79		
9	1	1	1	1.000000	1	1.910907

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.523312	
				VAR CCEFF	0.021554	0.078705
				EFFICIENCY	100.00	100.00
				EFF(M/N)	32.89	9.15
10	10	10	1	0.132107	1	0.013804
			2	0.075473	2	0.027795
			3	0.075455	3	0.041225
			4	0.078472	4	0.055099
			5	0.083184	5	0.069820
			6	0.088926	6	0.086463
			7	0.096162	7	0.105593
			8	0.105171	8	0.129688
			9	0.117757	9	0.163339
			10	0.147291	10	0.249068
			BIAS CORR	0.929373		
			VAR CCEFF	0.006376	0.006462	
			EFFICIENCY	100.00	100.00	
			EFF(M/N)	100.00	100.00	
10	10	9	1	0.132306	2	0.038274
			2	0.075922	3	0.041190
			3	0.074958	4	0.055134
			4	0.117966	5	0.069764
			5	0.132235	6	0.086570
			6	0.094873	7	0.105558
			7	0.106675	8	0.129764
			8	0.117367	9	0.163386
			9	0.147697	10	0.249156
						BIAS CORR
			VAR CCEFF	0.006389	0.006464	
			EFFICIENCY	99.79	99.96	
10	10	8	1	0.132782	2	0.054407
			2	0.075118	4	0.079090
			3	0.110769	5	0.069322
			5	0.169811	6	0.087428
			7	0.141245	7	0.104744
			8	0.103309	8	0.130417
			9	0.119243	9	0.163314
			10	0.147723	10	0.249373

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
10	10	7		BIAS CORR	0.929808	
				VAR CCEFF	0.006404	0.006469
				EFFICIENCY	99.56	99.89
			1	0.132872	2	0.054464
			2	0.105760	4	0.111644
			4	0.162239	6	0.123459
			6	0.182713	7	0.103665
			8	0.150571	8	0.131666
			9	0.117291	9	0.163020
			10	0.148553	10	0.249810
				BIAS CORR	0.930146	
				VAR CCEFF	0.006424	0.006478
				EFFICIENCY	99.26	99.74
10	10	6	1	0.156994	3	0.097570
			3	0.160148	5	0.142521
			5	0.171385	7	0.149445
			7	0.200873	8	0.128156
			9	0.161823	9	0.165014
			10	0.148776	10	0.250092
				BIAS CORR	0.930986	
				VAR CCEFF	0.006459	0.006493
				EFFICIENCY	98.72	99.51
			1	0.159132	4	0.151565
			3	0.196099	6	0.178500
			6	0.229914	8	0.179888
			8	0.228268	9	0.163743
			10	0.186588	10	0.251753
				BIAS CORR	0.928997	
				VAR CCEFF	0.006537	0.006528
				EFFICIENCY	97.53	98.98
10	10	4	1	0.182954	4	0.190260
			4	0.310560	7	0.261643
			8	0.316125	9	0.219308
			10	0.190361	10	0.253747
				BIAS CORR	0.931507	
				VAR CCEFF	0.006688	0.006590
				EFFICIENCY	95.34	98.05

TABLE 1  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.213027	9	0.273419
			5	0.407826	8	0.334306
			9	0.379157	10	0.305937
			BIAS CORR		0.907915	
			VAR COEFF		0.007058	
			EFFICIENCY		90.33	
10	10	2	3	0.444081	7	0.519586
			8	0.555919	10	0.369567
			BIAS CORR		0.927008	
			VAR COEFF		0.007870	
			EFFICIENCY		81.07	
					90.10	
10	10	1	6	1.000000	5	0.860057
			BIAS CORR		0.943198	
			VAR COEFF		0.010164	
			EFFICIENCY		62.77	
					70.60	
10	9	9	1	0.117018	1	0.019359
			2	0.078167	2	0.030721
			3	0.068968	3	0.046421
			4	0.080533	4	0.059744
			5	0.087247	5	0.074439
			6	0.090997	6	0.093948
			7	0.094927	7	0.117814
			8	0.107931	8	0.142191
			9	0.239612	9	0.394767
			BIAS CORR		0.901907	
			VAR COEFF		0.006613	
			EFFICIENCY		100.00	
			EFF(M/N)		96.42	
					89.87	
10	9	8	1	0.117335	2	0.042382
			2	0.078134	3	0.046383
			3	0.114079	4	0.055785
			4	0.131423	5	0.079376
			5	0.084702	6	0.094070
			6	0.102004	7	0.117751
			7	0.106709	8	0.142780
			8	0.240604	9	0.394931

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
10	9	7		BIAS CORR		
				VAR CCEFF		0.007191
				EFFICIENCY		99.96
			1	0.137724	2	0.060555
			2	0.077812	4	0.086769
			3	0.114810	5	0.078828
			5	0.176035	6	0.095044
			7	0.146077	7	0.116875
			8	0.106030	8	0.143028
			9	0.241502	9	0.395076
10	9	6		BIAS CORR		
				VAR CCEFF		0.007198
				EFFICIENCY		99.87
			1	0.137860	2	0.060632
			2	0.109740	4	0.123840
			4	0.168103	6	0.136072
			6	0.188924	7	0.115671
			8	0.155160	8	0.144475
			9	0.240213	9	0.395205
				BIAS CORR		
10	9	5		VAR CCEFF		0.007210
				EFFICIENCY		99.71
			1	0.162841	3	0.108297
			3	0.166005	5	0.158436
			5	0.177704	7	0.165543
			7	0.207333	8	0.140584
			9	0.286117	9	0.397657
				BIAS CORR		
				VAR CCEFF		0.007226
				EFFICIENCY		99.47
10	9	4	1	0.186623	4	0.168429
			4	0.268535	6	0.197651
			7	0.254187	8	0.198439
			9	0.290655	9	0.398025
				BIAS CORR		
				VAR CCEFF		0.007271
				EFFICIENCY		98.86

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
10	9	3	1	0.213022	4	0.211279
			5	0.407826	7	0.289911
			9	0.379152	9	0.461128
			BIAS CORR		0.907915	
			VAR CCEFF		0.007058	
			EFFICIENCY		93.69	
					97.86	
10	9	2	3	0.444081	6	0.413143
			8	0.555919	9	0.524927
			BIAS CORR		0.927008	
			VAR CCEFF		0.007870	
			EFFICIENCY		84.03	
					94.75	
10	9	1	6	1.000000	5	0.860057
			BIAS CORR		0.943158	
			VAR CCEFF		0.010166	
			EFFICIENCY		65.05	
					78.54	
10	8	8	1	0.143461	1	0.017176
			2	0.082372	2	0.035508
			3	0.080354	3	0.048895
			4	0.087839	4	0.073553
			5	0.086801	5	0.081445
			6	0.098103	6	0.110900
			7	0.102241	7	0.128566
			8	0.318830	8	0.525456
			BIAS CORR		0.872665	
			VAR CCEFF		0.006928	
			EFFICIENCY		100.00	
			EFF(M/N)		92.03	
					79.68	
10	8	7	1	0.143681	2	0.048551
			2	0.082847	3	0.048855
			3	0.079844	4	0.073604
			4	0.129060	5	0.081380
			6	0.143306	6	0.111044
			7	0.100906	7	0.128534
			8	0.320358	8	0.525711
			BIAS CORR		0.872815	
			VAR CCEFF		0.006942	
					0.008113	

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				99.79		99.96
			EFFICIENCY			
10	8	6	1	0.144001	2	0.067695
			2	0.114401	4	0.102032
			4	0.175404	6	0.080867
			6	0.144732	8	0.112076
			7	0.099459	7	0.127584
			8	0.322003	8	0.526647
			BIAS CORR	0.873778		
			VAR CCEFF	0.006961		0.008120
			EFFICIENCY	99.52		99.87
10	8	5	1	0.144333	2	0.067777
			2	0.114668	4	0.140038
			4	0.176276	6	0.154139
			6	0.197054	7	0.126353
			8	0.367669	8	0.528258
			BIAS CORR	0.873158		
			VAR CCEFF	0.006981		0.008133
			EFFICIENCY	99.23		99.71
10	8	4	1	0.171579	2	0.122148
			3	0.210916	4	0.176482
			6	0.246638	7	0.185107
			8	0.370867	8	0.526807
			BIAS CORR	0.875582		
			VAR CCEFF	0.007049		0.008162
			EFFICIENCY	98.28		99.35
10	8	3	1	0.197426	4	0.190027
			4	0.334412	6	0.221611
			8	0.468162	8	0.590309
			BIAS CORR	0.877116		
			VAR CCEFF	0.007221		0.008208
			EFFICIENCY	95.94		98.79
10	8	2	3	0.444081	5	0.336317
			8	0.555919	8	0.653064
			BIAS CORR	0.927008		
			VAR CCEFF	0.007870		0.008364
			EFFICIENCY	88.03		96.55

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
10	8	1	6	1.000000	6	0.927163
			BIAS CORR	0.943158		
			VAR CCEFF	0.010166		0.009278
			EFFICIENCY	68.15		87.40
10	7	7	1	0.152040	1	0.016998
			2	0.085659	2	0.037986
			3	0.089309	3	0.063687
			4	0.085398	4	0.070841
			5	0.098428	5	0.105138
			6	0.098871	6	0.118356
			7	0.390296	7	0.651431
			BIAS CORR	0.841256		
			VAR CCEFF	0.007334		0.009306
			EFFICIENCY	100.00		100.00
			EFF(M/N)	86.93		69.43
10	7	6	1	0.152394	2	0.053175
			2	0.085638	2	0.063648
			3	0.126979	4	0.070899
			5	0.145277	5	0.105076
			6	0.097527	6	0.118527
			7	0.392185	7	0.651688
			BIAS CORR	0.841671		
			VAR CCEFF	0.007351		0.009311
			EFFICIENCY	99.78		99.95
10	7	5	1	0.152847	2	0.053074
			2	0.085306	2	0.094802
			3	0.127807	5	0.143877
			5	0.193814	6	0.117374
			7	0.440226	7	0.653321
			BIAS CORR	0.841414		
			VAR CCEFF	0.007368		0.009322
			EFFICIENCY	99.54		99.83
10	7	4	1	0.179775	3	0.135159
			3	0.183211	5	0.144433
			5	0.194627	6	0.116726
			7	0.442387	7	0.654999



TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
10	7	3		BIAS CORR	0.843795	
				VAR CCEFF	0.007404	0.009340
				EFFICIENCY	99.06	99.64
			1	0.206464	3	0.139689
			4	0.295465	5	0.202517
			7	0.498071	7	0.713166
				BIAS CORR	0.847295	
				VAR CCEFF	0.007532	0.009365
				EFFICIENCY	97.37	99.37
10	7	2	2	0.361221	4	0.269294
			7	0.638779	7	0.775001
				BIAS CORR	0.877253	
				VAR CCEFF	0.008057	0.009480
				EFFICIENCY	91.03	98.17
			6	1.000000	7	0.991900
				BIAS CORR	0.943158	
				VAR CCEFF	0.010166	0.010065
				EFFICIENCY	72.15	92.47
10	6	6	1	0.162577	1	0.022659
			2	0.093955	2	0.048432
			3	0.089538	3	0.063375
			4	0.098859	4	0.096458
			5	0.098796	5	0.111072
			6	0.456275	6	0.778755
				BIAS CORR	0.807012	
				VAR CCEFF	0.007864	0.010921
				EFFICIENCY	100.00	100.00
				EFF(M/N)	81.08	59.17
			1	0.162875	2	0.065648
			2	0.094515	3	0.063331
			3	0.089006	4	0.096535
			4	0.145796	5	0.111004
			6	0.507809	6	0.779245
				BIAS CORR	0.807007	
				VAR CCEFF	0.007883	0.010927
				EFFICIENCY	99.76	99.94

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	0.163283	2	0.090488
			2	0.129730	4	0.133399
			4	0.197507	5	0.110393
			6	0.509480	6	0.780577
			BIAS CORR	0.807898		
			VAR CCEFF	0.007906		0.010939
			EFFICIENCY	99.47		99.84
10	6	3	1	0.194293	2	0.090653
			3	0.237787	4	0.185376
			6	0.567920	6	0.838601
			BIAS CORR	0.809589		
			VAR CCEFF	0.007991		0.010963
			EFFICIENCY	98.41		99.62
10	6	2	1	0.276111	4	0.251183
			6	0.723884	6	0.844011
			BIAS CORR	0.823475		
			VAR CCEFF	0.008415		0.011040
			EFFICIENCY	93.45		98.92
10	6	1	6	1.000000	6	1.060268
			BIAS CORR	0.943158		
			VAR CCEFF	0.010166		0.011428
			EFFICIENCY	77.36		95.57
10	5	5	1	0.177545	1	0.027974
			2	0.099835	2	0.053684
			3	0.101676	3	0.084377
			4	0.102017	4	0.105808
			5	0.518927	5	0.913448
			BIAS CORR	0.768920		
			VAR CCEFF	0.008574		0.013217
			EFFICIENCY	100.00		100.00
			EFF(M/N)	74.36		48.89
10	5	4	1	0.178045	2	0.074945
			2	0.099864	3	0.084339
			3	0.146726	4	0.105910
			5	0.575365	5	0.913988

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
10	5	3	1	0.209739	2	0.108065
			3	0.211748	4	0.155052
			5	0.578513	5	0.915002
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
10	5	2	1	0.268453	3	0.193639
			5	0.731547	5	0.975203
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
10	5	1	5	1.000000	5	1.137619
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
10	4	4	1	0.197645	1	0.034164
			2	0.112207	2	0.069397
			3	0.110152	3	0.100051
			4	0.579997	4	1.064033
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		
10	4	3	1	0.198291	2	0.095377
			2	0.155896	3	0.100016
			4	0.645813	4	1.064850
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
10	4	2	1	0.266127	2	0.134688
			4	0.733873	4	1.124400
				BIAS CORR		

TABLE I  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.016776 99.74
10	4	1	4	1.000000 0.812011 0.011174 85.69	4	1.231510 0.016947 98.73
10	3	3	1	0.228700	1	0.045494
			2	0.128138	2	0.090149
			3	0.643082	3	1.245909
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.022782 100.00 28.36
10	3	2	1	0.289867	2	0.124775
			3	0.730133	3	1.247033
				BIAS CORR VAR CCEFF EFFICIENCY		0.022807 99.89
10	3	1	3	1.000000 0.737292 0.012451 89.20	3	1.356316 0.022905 99.46
10	2	2	1	0.282887	1	0.066617
			2	0.717113	2	1.496007
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.035564 100.00 18.17
10	2	1	2	1.000000 0.645749 0.014832 93.06	2	1.548589 0.035617 99.85
10	1	1	1	1.000000 0.509708	1	1.961909



GAW/MATH/68-1

APPENDIX B

Tables  
for  
Sample Sizes 11 to 13

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
11	11	11	1	1.110130	1	0.468910
			2	-0.074630	2	0.318164
			3	-0.021640	3	0.232845
			4	-0.007903	4	0.178106
			5	-0.003285	5	0.139926
			6	-0.001471	6	0.111599
			7	-0.000682	7	0.089499
			8	-0.000316	8	0.071437
			9	-0.000140	9	0.055884
			10	-0.000053	10	0.041322
			11	-0.000011	11	0.022176
			BIAS CORR	0.005674		
			VAR COEFF	0.001255		0.382374
			EFFICIENCY	100.00		100.00
			EFF (M/N)	100.00		100.00
11	11	10	1	1.110137	2	0.448936
			2	-0.074630	3	0.233304
			3	-0.021640	4	0.178318
			4	-0.007903	5	0.140045
			5	-0.003282	6	0.111675
			6	-0.001471	7	0.089551
			7	-0.000682	8	0.071476
			8	-0.000317	9	0.055912
			9	-0.000140	10	0.041343
			10	-0.000060	11	0.022186
			BIAS CORR	0.005719		
			VAR COEFF	0.001255		0.382553
			EFFICIENCY	100.00		99.95
11	11	9	1	1.110157	2	0.627690
			2	-0.074633	4	0.255872
			3	-0.021641	5	0.140291
			4	-0.007904	6	0.111826
			5	-0.003286	7	0.089653
			6	-0.001472	8	0.071547
			7	-0.000684	9	0.055964
			8	-0.000400	10	0.041379
			10	-0.000018	11	0.022205
			BIAS CORR	0.005747		
			VAR COEFF	0.001255		0.382870

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				100.00		99.87
			EFFICIENCY			
11	11	8	1	1.110196	2	0.629472
			2	-0.074637	4	0.358836
			3	-0.021644	6	0.158839
			4	-0.007905	7	0.089855
			5	-0.003287	8	0.071684
			6	-0.001473	9	0.056060
			7	-0.000937	10	0.041444
			9	-0.000312	11	0.022238
			BIAS CORR	0.005834		
			VAR COEFF	0.001255		0.383423
			EFFICIENCY	99.99		99.73
11	11	7	1	1.110292	3	0.553621
			2	-0.074648	5	0.284102
			3	-0.021649	7	0.126468
			4	-0.007909	8	0.071920
			5	-0.003291	9	0.056225
			6	-0.001994	10	0.041558
			8	-0.000802	11	0.022296
			BIAS CORR	0.005977		
			VAR COEFF	0.001255		0.384382
			EFFICIENCY	99.98		99.48
11	11	5	1	1.110516	3	0.702067
			2	-0.074672	6	0.271186
			3	-0.021661	8	0.100014
			4	-0.007918	9	0.056574
			5	-0.004384	10	0.041790
			7	-0.001880	11	0.022412
			BIAS CORR	0.006204		
			VAR COEFF	0.001255		0.386294
			EFFICIENCY	99.96		98.99
11	11	3	1	1.111038	4	0.610518
			2	-0.074730	7	0.219305
			3	-0.021690	9	0.077022
			4	-0.010344	10	0.042180
			6	-0.004274	11	0.022602
			BIAS CORR	0.006547		



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.001256 99.91		0.389362 98.21
11	11	4	1	1.112329	5	0.537640
			2	-0.074872	8	0.178428
			3	-0.027607	10	0.055526
			5	-0.009849	11	0.023010
				BIAS CORR VAR COEFF EFFICIENCY		
				0.007071 0.001258 99.79		0.395709 96.63
11	11	3	1	1.116021	6	0.482610
			2	-0.091874	9	0.146528
			4	-0.024147	11	0.028939
				BIAS CORR VAR COEFF EFFICIENCY		
				0.007901 0.001262 99.45		0.411155 93.00
11	11	2	1	1.068187	8	0.383098
			3	-0.068187	11	0.036075
				BIAS CORR VAR COEFF EFFICIENCY		
				0.009349 0.001280 98.09		0.455657 83.92
11	11	1	1	1.000000	9	0.381962
				BIAS CORR VAR COEFF EFFICIENCY		
				0.016529 0.001366 91.87		0.590102 64.80
11	10	10	1	1.110137	1	0.516816
			2	-0.074630	2	0.350757
			3	-0.021640	3	0.256785
			4	-0.007903	4	0.196511
			5	-0.003285	5	0.154491
			6	-0.001471	6	0.123344
			7	-0.000683	7	0.099088
			8	-0.000317	8	0.079342
			9	-0.000140	9	0.062505
			10	-0.000068	10	0.078879
				BIAS CORR VAR COEFF		
				0.005719 0.001255		0.420796

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
			EFFICIENCY	100.00		90.87
			EFF(M/N)			
11	10	9	1	1.110157	2	0.494914
			2	-0.074633	3	0.257304
			3	-0.021641	4	0.196754
			4	-0.007904	5	0.154629
			5	-0.003286	6	0.123434
			6	-0.001472	7	0.099151
			7	-0.000684	8	0.079389
			8	-0.000440	9	0.062540
			10	-0.000098	10	0.078921
			BIAS CORR	0.005747		
			VAR COEFF	0.001255		0.421013
			EFFICIENCY	100.00		99.95
11	10	8	1	1.110196	2	0.692116
			2	-0.074637	4	0.282311
			3	-0.021644	5	0.154915
			4	-0.007905	6	0.123611
			5	-0.003287	7	0.099272
			6	-0.001473	8	0.079475
			7	-0.000937	9	0.062604
			9	-0.000312	10	0.078996
			BIAS CORR	0.005834		
			VAR COEFF	0.001255		0.421399
			EFFICIENCY	99.99		99.86
11	10	7	1	1.110292	2	0.694192
			2	-0.074648	4	0.396069
			3	-0.021649	6	0.175553
			4	-0.007909	7	0.099511
			5	-0.003291	8	0.079640
			6	-0.001994	9	0.062720
			8	-0.000602	10	0.079131
			BIAS CORR	0.005977		
			VAR COEFF	0.001255		0.422073
			EFFICIENCY	99.99		99.70
11	10	6	1	1.110516	3	0.610871
			2	-0.074672	5	0.313899

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.021661	7	0.140027
			4	-0.007918	8	0.079923
			5	-0.004384	9	0.062922
			7	-0.001880	10	0.079363
			BIAS CORR	0.006204		
			VAR COEFF	0.001255		0.423243
			EFFICIENCY	99.96		99.42
11	10	5	1	1.111038	3	0.775253
			2	-0.074730	6	0.300056
			3	-0.021690	8	0.111107
			4	-0.010344	9	0.063346
			6	-0.004274	10	0.079839
			BIAS CORR	0.006547		
			VAR COEFF	0.001256		0.425582
			EFFICIENCY	99.91		98.88
11	10	4	1	1.112329	4	0.675093
			2	-0.074872	7	0.243343
			3	-0.027607	9	0.086165
			5	-0.009849	10	0.080629
			BIAS CORR	0.007071		
			VAR COEFF	0.001258		0.429355
			EFFICIENCY	99.79		98.01
11	10	3	1	1.116021	5	0.596149
			2	-0.091874	8	0.199167
			4	-0.024147	10	0.096388
			BIAS CORR	0.007901		
			VAR COEFF	0.001262		0.437247
			EFFICIENCY	99.45		96.24
11	10	2	1	1.068187	7	0.465355
			3	-0.068187	10	0.114119
			BIAS CORR	0.009349		
			VAR COEFF	0.001280		0.462532
			EFFICIENCY	98.09		90.98
11	10	1	1	1.000000	9	0.381962
			BIAS CORR	0.016529		
			VAR COEFF	0.001366		0.590102

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		71.31
11	9	9	1	1.110164	1	0.577513
			2	-0.074633	2	0.392145
			3	-0.021642	3	0.287277
			4	-0.007904	4	0.220051
			5	-0.003286	5	0.173228
			6	-0.001472	6	0.138586
			7	-0.000684	7	0.111707
			8	-0.000318	8	0.089997
			9	-0.000224	9	0.179602
				BIAS CORR		
				0.005811		
				VAR COEFF		0.468796
				0.001255		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		81.57
11	9	8	1	1.110196	2	0.553267
			2	-0.074637	3	0.287875
			3	-0.021644	4	0.220336
			4	-0.007905	5	0.173395
			5	-0.003287	6	0.138696
			6	-0.001473	7	0.111785
			7	-0.000937	8	0.090056
			9	-0.000312	9	0.179710
				BIAS CORR		
				0.005834		
				VAR COEFF		0.469068
				0.001255		
				EFFICIENCY		99.94
11	9	7	1	1.110292	2	0.773987
			2	-0.074648	4	0.316093
			3	-0.021649	5	0.173734
			4	-0.007909	6	0.138911
			5	-0.003291	7	0.111934
			6	-0.001994	8	0.090164
			8	-0.000802	9	0.179906
				BIAS CORR		
				0.005977		
				VAR COEFF		0.469551
				0.001255		
				EFFICIENCY		99.94
11	9	6	1	1.110516	2	0.776471
			2	-0.074672	4	0.443762

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
11	9	5	3	-0.021661	6	0.197203
			4	-0.007918	7	0.112227
			5	-0.004384	8	0.090369
			7	-0.001880	9	0.180261
				0.006204		
			BIAS CORR			0.470399
			VAR COEFF	0.001255		99.66
			EFFICIENCY	99.97		
			1	1.111038	3	0.683882
			2	-0.074730	5	0.352339
11	9	4	3	-0.021690	7	0.157824
			4	-0.010344	8	0.090723
			6	-0.004274	9	0.180875
				0.006547		
			BIAS CORR			0.471870
			VAR COEFF	0.001256		99.35
			EFFICIENCY	99.92		
			1	1.112329	3	0.868906
			2	-0.074872	6	0.337662
			3	-0.027607	8	0.126031
11	9	3	5	-0.009849	9	0.182148
				0.007071		
			BIAS CORR			0.474831
			VAR COEFF	0.001258		98.73
			EFFICIENCY	99.80		
			1	1.116021	4	0.758301
			2	-0.091874	7	0.275197
			4	-0.024147	9	0.209428
				0.007901		
			BIAS CORR			0.479648
11	9	2		0.001262		97.74
			EFFICIENCY	99.45		
			1	1.068187	6	0.588151
			3	-0.068187	9	0.238875
				0.009349		
			BIAS CORR			0.495989
			VAR COEFF	0.001280		94.52
			EFFICIENCY	98.09		
			1	1.000000	9	0.381962
				0.016529		
11	9	1		0.001366		0.590132
			BIAS CORR			
			VAR COEFF			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		91.88
						79.44
11	8	8	1	1.110235	1	0.655629
			2	-0.074641	2	0.445545
			3	-0.021646	3	0.326750
			4	-0.007907	4	0.250663
			5	-0.003289	5	0.197754
			6	-0.001475	6	0.158727
			7	-0.000687	7	0.128627
			8	-0.000591	8	0.348375
				BIAS CORR		0.005953
				VAR COEFF		0.001255
				EFFICIENCY		100.00
				EFF(M/N)		99.99
11	8	7	1	1.110292	2	0.628513
			2	-0.074648	3	0.327457
			3	-0.021649	4	0.251008
			4	-0.007909	5	0.197960
			5	-0.003291	6	0.158866
			6	-0.001994	7	0.128727
			8	-0.000802	8	0.348619
				BIAS CORR		0.005977
				VAR COEFF		0.001255
				EFFICIENCY		99.99
11	8	6	1	1.110516	2	0.879711
			2	-0.074672	4	0.359986
			3	-0.021661	5	0.198376
			4	-0.007918	6	0.159135
			5	-0.004384	7	0.128917
			7	-0.001880	8	0.349063
				BIAS CORR		0.006204
				VAR COEFF		0.001255
				EFFICIENCY		99.97
11	8	5	1	1.111038	2	0.882786
			2	-0.074730	4	0.505903
			3	-0.021690	6	0.225760
			4	-0.010344	7	0.129290
			6	-0.004274	8	0.349880

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
11	8	4		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.006547		0.531671
				0.001256		99.61
				99.92		
			1	1.112329	3	0.778566
			2	-0.074872	5	0.402821
			3	-0.027607	7	0.181630
			5	-0.009849	8	0.351294
11	8	3		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.007071		0.533591
				0.001258		99.25
				99.80		
			1	1.116021	3	0.490869
			2	-0.091874	6	0.387544
			4	-0.024147	8	0.394098
				BIAS CORR		
11	8	2		VAR COEFF		
				EFFICIENCY		
				0.007901		0.537488
				0.001262		98.53
				99.46		
			1	1.068187	5	0.759650
			3	-0.068187	8	0.437853
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	8	1		0.009349		0.548381
				0.001280		96.57
				98.10		
			1	1.000000	8	0.623128
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.016529		0.611221
				0.001366		86.64
				91.88		
11	7	7	1	1.110401	1	0.759282
			2	-0.074660	2	0.516614
			3	-0.021655	3	0.379491
			4	-0.007913	4	0.291782
			5	-0.003295	5	0.230943
			6	-0.001481	6	0.186274
			7	-0.001398	7	0.629958
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	7	7		0.006175		0.608718
				0.001255		100.00
				100.00		62.82
				EFF(M/N)		
				99.97		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
11	7	6	1	1.110516	2	0.728589
			2	-0.074672	3	0.380353
			3	-0.021661	4	0.292215
			4	-0.007918	5	0.231207
			5	-0.004384	6	0.186456
			7	-0.001880	7	0.630481
			BIAS CORR	0.006204		
			VAR COEFF	0.001255		0.609187
			EFFICIENCY	99.99		99.92
11	7	5	1	1.111038	2	1.020573
			2	-0.074730	4	0.418884
			3	-0.021690	5	0.231741
			4	-0.010344	6	0.186810
			6	-0.004274	7	0.631444
			BIAS CORR	0.006547		
			VAR COEFF	0.001256		0.610030
			EFFICIENCY	99.94		99.78
11	7	4	1	1.112329	2	1.024552
			2	-0.074872	4	0.589571
			3	-0.027607	6	0.264746
			5	-0.009849	7	0.633254
			BIAS CORR	0.007071		
			VAR COEFF	0.001258		0.611541
			EFFICIENCY	99.82		99.54
11	7	3	1	1.116021	3	0.905386
			2	-0.091874	5	0.471426
			4	-0.024147	7	0.697140
			BIAS CORR	0.007901		
			VAR COEFF	0.001262		0.614162
			EFFICIENCY	99.47		99.11
11	7	2	1	1.068187	4	1.004600
			3	-0.068187	7	0.761582
			BIAS CORR	0.009349		
			VAR COEFF	0.001280		0.622317
			EFFICIENCY	98.11		97.81
11	7	1	1	1.000000	7	0.988596



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.016529		0.666893
				0.001366		91.28
				91.90		
11	6	6	1	1.110779	1	0.902722
			2	-0.074701	2	0.615334
			3	-0.021676	3	0.453098
			4	-0.007929	4	0.349532
			5	-0.003308	5	0.277757
			6	-0.003135	6	1.110856
				BIAS CORR		
				0.006509		
				VAR COEFF		0.715667
				0.001256		100.00
				EFFICIENCY		100.00
				EFF(M/N)		53.43
				99.94		
11	6	5	1	1.111038	2	0.867500
			2	-0.074730	3	0.454195
			3	-0.021690	4	0.350104
			4	-0.010344	5	0.278318
			6	-0.004274	6	1.111985
				BIAS CORR		
				0.006547		
				VAR COEFF		0.716331
				0.001256		99.91
				EFFICIENCY		99.91
				99.98		
11	6	4	1	1.112329	2	1.216527
			2	-0.074872	4	0.501515
			3	-0.027607	5	0.279041
			5	-0.009849	6	1.114097
				BIAS CORR		
				0.007071		
				VAR COEFF		0.717533
				0.001258		99.74
				EFFICIENCY		99.74
				99.85		
11	6	3	1	1.116021	2	1.221998
			2	-0.091874	4	0.707446
			4	-0.024147	6	1.211199
				BIAS CORR		
				0.007901		
				VAR COEFF		0.719724
				0.001262		99.44
				EFFICIENCY		99.44
				99.51		
11	6	2	1	1.068187	3	1.375099
			3	-0.068187	6	1.307039

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.009349		
			VAR COEFF	0.001280		0.726271
			EFFICIENCY	98.15		98.54
11	6	1	1	1.000000	6	1.570060
			BIAS CORR	0.016529		
			VAR COEFF	0.001366		0.758286
			EFFICIENCY	91.93		94.38
11	5		1	1.111638	1	1.113141
			2	-0.074796	2	0.760732
			3	-0.021723	3	0.562126
			4	-0.007963	4	0.435715
			5	-0.007156	5	1.972140
			BIAS CORR	0.007015		
			VAR COEFF	0.001257		0.867877
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.86		44.06
11	5	4	1	1.112329	2	1.071922
			2	-0.074872	3	0.563615
			3	-0.027607	4	0.436529
			5	-0.009849	5	1.974711
			BIAS CORR	0.007071		
			VAR COEFF	0.001258		0.868887
			EFFICIENCY	99.93		99.88
11	5	3	1	1.116021	2	1.505713
			2	-0.091874	4	0.624706
			4	-0.024147	5	1.979607
			BIAS CORR	0.007901		
			VAR COEFF	0.001262		0.870739
			EFFICIENCY	99.59		99.67
11	5	2	1	1.068187	3	1.337835
			3	-0.068187	5	2.138500
			BIAS CORR	0.009349		
			VAR COEFF	0.001280		0.875012
			EFFICIENCY	98.23		99.18
11	5	1	1	1.000000	5	2.554908

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.016529		
				0.001366		0.899348
				92.01		96.50
11	4	4	1	1.113679	1	1.448044
			2	-0.075022	2	0.993429
			3	-0.021836	3	0.737828
			4	-0.016822	4	3.639086
				BIAS CORR		
				0.007798		
				VAR COEFF		1.101046
				0.001259		100.00
				100.00		34.73
				EFF(M/N)		
				99.67		
11	4	3	1	1.116021	2	1.398798
			2	-0.091874	3	0.740064
			4	-0.024147	4	3.645579
				BIAS CORR		
				0.007901		
				VAR COEFF		1.102756
				0.001262		99.84
				99.78		
11	4	2	1	1.068187	2	1.969902
			3	-0.068187	4	3.903315
				BIAS CORR		
				0.009349		
				VAR COEFF		1.105952
				0.001260		99.56
				98.42		
11	4	1	1	1.000000	4	4.374809
				BIAS CORR		
				0.016529		
				VAR COEFF		1.124008
				0.001366		97.96
				92.18		
11	3	3	1	1.118984	1	2.052014
			2	-0.075607	2	1.415904
			3	-0.043377	3	7.294131
				BIAS CORR		
				0.009075		
				VAR COEFF		1.500866
				0.001266		100.00
				100.00		25.48
				EFF(M/N)		
				99.17		
11	3	2	1	1.068187	2	1.991847
			3	-0.068187	3	7.313891

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
11	3	1		BIAS CORR		0.009349
				VAR COEFF		0.001280
				EFFICIENCY		98.91
11	3	1	1	1.000000	3	8.208405
				BIAS CORR		0.016529
				VAR COEFF		0.001366
11	2	2		EFFICIENCY		92.64
			1	1.135181	1	3.399446
			2	-0.135181	2	17.250923
11	2	2		BIAS CORR		0.011367
				VAR COEFF		0.001285
				EFFICIENCY		100.00
11	2	1		EFF(M/N)		16.39
			1	1.000000	2	18.277946
				BIAS CORR		0.016529
11	1	1		VAR COEFF		0.001366
				EFFICIENCY		94.05
			1	1.000000	1	60.500002
11	1	1		BIAS CORR		0.016529
				VAR COEFF		0.001366
				EFFICIENCY		100.00
11	1	1		EFF(M/N)		7.65
12	12	12	1	1.111493	1	0.463964
			2	-0.074783	2	0.316738
			3	-0.021989	3	0.233300
			4	-0.008173	4	0.179763
			5	-0.003475	5	0.142466
			6	-0.001604	6	0.114880
			7	-0.000775	7	0.093407
			8	-0.000382	8	0.076201
			9	-0.000186	9	0.061661
			10	-0.000085	10	0.048826
			11	-0.000033	11	0.036532
			12	-0.000007	12	0.019886
12	12	12		BIAS CORR		0.004532
				VAR COEFF		0.000885
12	12	12				0.349269

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	1.111497	2	0.448207
			2	-0.074783	3	0.233701
			3	-0.021989	4	0.179945
			4	-0.008173	5	0.142567
			5	-0.003476	6	0.114944
			6	-0.001604	7	0.093531
			7	-0.000775	8	0.076233
			8	-0.000382	9	0.061686
			9	-0.000186	10	0.048844
			10	-0.000086	11	0.036545
			11	-0.000043	12	0.019893
				BIAS CORR		
				0.004557		
				VAR COEFF		0.349392
				0.000885		99.96
				EFFICIENCY		100.00
12	12	10	1	1.111509	2	0.624241
			2	-0.074785	4	0.259329
			3	-0.021990	5	0.142768
			4	-0.008174	6	0.115066
			5	-0.003476	7	0.093612
			6	-0.001604	8	0.076292
			7	-0.000776	9	0.061729
			8	-0.000382	10	0.048877
			9	-0.000260	11	0.036568
			11	-0.000062	12	0.019905
				BIAS CORR		
				0.004575		
				VAR COEFF		0.349601
				0.000885		99.91
				EFFICIENCY		100.00
12	12	9	1	1.111531	2	0.625571
			2	-0.074787	4	0.361290
			3	-0.021991	6	0.164630
			4	-0.008174	7	0.093766
			5	-0.003477	8	0.076397
			6	-0.001605	9	0.061804
			7	-0.000776	10	0.048931
			8	-0.000530	11	0.036607
			10	-0.000191	12	0.019925

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004630		
				0.000885		0.349942
				100.00		99.81
12	12	6	1	1.111584	3	0.554852
			2	-0.074793	5	0.288037
			3	-0.021994	7	0.133287
			4	-0.008176	8	0.076578
			5	-0.003478	9	0.061934
			6	-0.002165	10	0.049026
			8	-0.000786	11	0.036674
			10	-0.000191	12	0.019961
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004647		0.350545
				0.000885		99.64
				99.99		
12	12	7	1	1.111691	3	0.556805
			2	-0.074804	5	0.289169
			3	-0.021999	7	0.190940
			4	-0.008180	9	0.085911
			5	-0.004621	10	0.049207
			7	-0.001612	11	0.036793
			9	-0.000475	12	0.020020
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004741		0.351513
				0.000885		99.36
				99.98		
12	12	8	1	1.111947	3	0.702359
			2	-0.074831	6	0.280631
			3	-0.022013	8	0.157767
			4	-0.010659	10	0.066773
			6	-0.003378	11	0.037019
			8	-0.001066	12	0.020130
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004891		0.353301
				0.000885		98.86
				99.96		
12	12	9	1	1.112535	4	0.617469
			2	-0.074894	7	0.230624
			3	-0.022043	9	0.130819
			4	-0.012573	11	0.048358

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			7	-0.003026	12	0.020349
			BIAS CORR	0.005145		
			VAR COEFF	0.000886		0.356653
			EFFICIENCY	99.90		97.93
12	12	4	1	1.113904	6	0.480816
			2	-0.075039	9	0.154940
			3	-0.028044	11	0.049317
			5	-0.010821	12	0.020724
			BIAS CORR	0.005841		
			VAR COEFF	0.000887		0.363020
			EFFICIENCY	99.77		96.21
12	12	3	1	1.117698	6	0.597855
			2	-0.092050	10	0.141842
			4	-0.025648	12	0.026053
			BIAS CORR	0.006557		
			VAR COEFF	0.000890		0.376759
			EFFICIENCY	99.42		92.70
12	12	2	1	1.070517	9	0.348911
			3	-0.070517	12	0.032713
			BIAS CORR	0.007787		
			VAR COEFF	0.000902		0.420599
			EFFICIENCY	98.07		83.04
12	12	1	1	1.000000	10	0.346589
			BIAS CORR	0.013889		
			VAR COEFF	0.000965		0.540797
			EFFICIENCY	91.73		64.58
12	11	11	1	1.111497	1	0.506842
			2	-0.074783	2	0.346074
			3	-0.021989	3	0.254969
			4	-0.008173	4	0.196524
			5	-0.003476	5	0.155819
			6	-0.001604	6	0.125729
			7	-0.000775	7	0.102417
			8	-0.000382	8	0.083618
			9	-0.000186	9	0.067858
			10	-0.000086	10	0.054105

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	11	10	11	-0.000043	11	0.069329
			BIAS CORR	0.004557		
			VAR COEFF	0.000885		0.381081
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		91.65
			1	1.111509	2	0.489709
			2	-0.074785	3	0.255416
			3	-0.021990	4	0.196729
			4	-0.008174	5	0.155935
			5	-0.003476	6	0.125803
			6	-0.001604	7	0.102469
12	11	9	7	-0.000776	8	0.083656
			8	-0.000382	9	0.067897
			9	-0.000260	10	0.054127
			11	-0.000062	11	0.069356
			BIAS CORR	0.004575		
			VAR COEFF	0.000885		0.381227
			EFFICIENCY	100.00		99.96
			1	1.111531	2	0.682138
			2	-0.074787	4	0.283505
			3	-0.021991	5	0.156163
			4	-0.008174	6	0.125944
12	11	8	5	-0.003477	7	0.102564
			6	-0.001605	8	0.083725
			7	-0.000776	9	0.067949
			8	-0.000530	10	0.054165
			10	-0.000191	11	0.069403
			BIAS CORR	0.004630		
			VAR COEFF	0.000885		0.381476
			EFFICIENCY	100.00		99.90
			1	1.111584	2	0.683656
			2	-0.074793	4	0.395069
			3	-0.021994	6	0.180175
12	11	8	4	-0.008176	7	0.102741
			5	-0.003478	8	0.083848
			6	-0.002165	9	0.068037
			8	-0.000786	10	0.054231
			10	-0.000191	11	0.069481



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
12	11	7	1	1.111691	3	0.606585
			2	-0.074804	5	0.315171
			3	-0.021999	7	0.146027
			4	-0.008180	8	0.084060
			5	-0.004621	9	0.068192
			7	-0.001612	10	0.054345
			9	-0.000475	11	0.069619
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004647		0.381885
				0.000885		99.79
				99.99		
12	11	6	1	1.111947	3	0.609897
			2	-0.074831	5	0.316502
			3	-0.022013	7	0.209372
			4	-0.010659	9	0.094539
			6	-0.003378	10	0.054561
			8	-0.001066	11	0.069856
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004891		0.383773
				0.000885		99.30
				99.96		
12	11	5	1	1.112535	3	0.768591
			2	-0.074894	6	0.307491
			3	-0.022043	8	0.173433
			4	-0.012573	10	0.073950
			7	-0.003026	11	0.070305
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.005145		0.385934
				0.000886		98.74
				99.90		
12	11	4	1	1.113904	5	0.592146
			2	-0.075039	8	0.206333
			3	-0.028044	10	0.074837
			5	-0.010821	11	0.071078
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.005841		0.389987
				0.000887		97.72
				99.77		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	1.117698	6	0.528423
			2	-0.092050	9	0.171391
			4	-0.025649	11	0.085061
			BIAS CORR	0.006557		
			VAR COEFF	0.000890		0.397711
			EFFICIENCY	99.42		95.92
12	11	2	1	1.070517	7	0.587262
			3	-0.070517	11	0.109395
			BIAS CORR	0.007787		
			VAR COEFF	0.000902		0.421579
			EFFICIENCY	98.07		90.39
12	11	1	1	1.000000	10	0.346589
			BIAS CORR	0.013889		
			VAR COEFF	0.000965		0.540797
			EFFICIENCY	91.73		70.47
12	10	10	1	1.111513	1	0.560023
			2	-0.074785	2	0.382521
			3	-0.021990	3	0.281953
			4	-0.008174	4	0.217459
			5	-0.003476	5	0.172569
			6	-0.001604	6	0.139418
			7	-0.000776	7	0.113786
			8	-0.000382	8	0.093193
			9	-0.000187	9	0.076078
			10	-0.000139	10	0.154518
			BIAS CORR	0.004616		
			VAR COEFF	0.000885		0.420064
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		82.15
12	10	9	1	1.111531	2	0.541249
			2	-0.074787	3	0.282459
			3	-0.021991	4	0.217695
			4	-0.008174	5	0.172703
			5	-0.003477	6	0.139507
			6	-0.001605	7	0.113848
			7	-0.000776	8	0.093239

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	10	8	8	-0.000530	9	0.076114
			10	-0.000191	10	0.154586
			BIAS CORR	0.004630		
			VAR COEFF	0.000885		0.420243
			EFFICIENCY	100.00		99.96
			1	1.111584	2	0.754107
			2	-0.074793	4	0.313680
			3	-0.021994	5	0.172968
			4	-0.008176	6	0.139672
			5	-0.003478	7	0.113962
12	10	7	6	-0.002165	8	0.093322
			8	-0.000786	9	0.076177
			10	-0.000191	10	0.154704
			BIAS CORR	0.004647		
			VAR COEFF	0.000885		0.420548
			EFFICIENCY	99.99		99.99
			1	1.111691	2	0.755878
			2	-0.074804	4	0.437303
			3	-0.021999	6	0.199764
			4	-0.008180	7	0.114172
12	10	6	5	-0.004621	8	0.093471
			7	-0.001612	9	0.076286
			9	-0.000475	10	0.154902
			BIAS CORR	0.004741		
			VAR COEFF	0.000885		0.421049
			EFFICIENCY	99.98		99.77
			1	1.111947	3	0.671051
			2	-0.074831	5	0.349262
			3	-0.022013	7	0.162217
			4	-0.010659	8	0.093727
12	10	5	6	-0.003378	9	0.076475
			8	-0.001066	10	0.155249
			BIAS CORR	0.004841		
			VAR COEFF	0.000885		0.421933
			EFFICIENCY	99.96		99.56
			1	1.112535	3	0.673875
			2	-0.074894	5	0.350875

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.022043	7	0.232936
			4	-0.012573	9	0.105895
			7	-0.003026	10	0.155874
				0.005145		
				0.000886		0.423385
				99.90		99.22
12	10	4	1	1.113904	3	0.851475
			2	-0.075039	6	0.341500
			3	-0.028044	8	0.193831
			5	-0.010821	10	0.178369
				0.005841		
				0.000887		0.426087
				99.78		98.59
12	10	3	1	1.117698	5	0.657702
			2	-0.092050	8	0.230683
			4	-0.025648	10	0.180629
				0.006557		
				0.000890		0.431076
				99.42		97.45
12	10	2	1	1.070517	6	0.715408
			5	-0.070517	10	0.222545
				0.007787		
				0.000902		0.447076
				98.07		93.96
12	10	1	1	1.000000	10	0.346589
				0.013889		
				0.000965		0.540797
				91.73		77.68
12	9	4	1	1.111555	1	0.626690
			2	-0.074790	2	0.428300
			3	-0.021992	3	0.315931
			4	-0.008175	4	0.243908
			5	-0.003477	5	0.193826
			6	-0.001605	6	0.156905
			7	-0.000777	7	0.128443
			8	-0.000384	8	0.105719

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	i	LOCATION	i	SCALE
			9	-0.000354	9	0.292394
			BIAS CORR	0.004710		
			VAR COEFF	0.000885		0.468281
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.99		74.59
12	9	8	1	1.111585	2	0.605956
			2	-0.074793	3	0.316514
			3	-0.021994	4	0.244185
			4	-0.008176	5	0.193986
			5	-0.003478	6	0.157011
			6	-0.001606	7	0.128520
			7	-0.001063	8	0.105777
			9	-0.000474	9	0.292540
			BIAS CORR	0.004723		
			VAR COEFF	0.000885		0.468505
			EFFICIENCY	100.00		99.95
12	9	7	1	1.111691	2	0.844553
			2	-0.074804	4	0.351776
			3	-0.021999	5	0.194302
			4	-0.008180	6	0.157211
			5	-0.004621	7	0.128661
			7	-0.001612	8	0.105880
			9	-0.000475	9	0.292745
			BIAS CORR	0.004741		
			VAR COEFF	0.000885		0.468888
			EFFICIENCY	99.99		99.87
12	9	6	1	1.111947	2	0.846673
			2	-0.074831	4	0.490723
			3	-0.022013	6	0.224751
			4	-0.00659	7	0.128919
			6	-0.003378	8	0.106065
			8	-0.001766	9	0.293229
			BIAS CORR	0.004841		
			VAR COEFF	0.000885		0.469520
			EFFICIENCY	99.96		99.74
12	9	5	1	1.112535	3	0.752300
			2	-0.074894	5	0.392615

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.022043	7	0.183056
			4	-0.012573	8	0.106395
			7	-0.003026	9	0.293988
		BIAS CORR		0.005145		
		VAR COEFF		0.000886		0.470635
		EFFICIENCY		99.91		99.50
12	9	4	1	1.113904	3	0.755876
			2	-0.075039	5	0.394646
			3	-0.028044	7	0.263465
			5	-0.010821	9	0.328394
		BIAS CORR		0.005841		
		VAR COEFF		0.000887		0.472507
		EFFICIENCY		99.78		99.11
12	9	3	1	1.117698	4	0.833552
			2	-0.092050	7	0.314787
			4	-0.025648	9	0.331089
		BIAS CORR		0.006557		
		VAR COEFF		0.000890		0.476025
		EFFICIENCY		99.43		98.37
12	9	2	1	1.070517	6	0.657246
			3	-0.070517	9	0.369510
		BIAS CORR		0.007787		
		VAR COEFF		0.000902		0.487787
		EFFICIENCY		98.07		96.00
12	9	1	1	1.000000	9	0.550523
		BIAS CORR		0.013889		
		VAR COEFF		0.000965		0.550409
		EFFICIENCY		91.73		85.08
12	8	6	1	1.111650	1	0.712262
			2	-0.074800	2	0.487194
			3	-0.021997	3	0.359771
			4	-0.008179	4	0.278166
			5	-0.003480	5	0.221501
			6	-0.001608	6	0.179835
			7	-0.000780	7	0.147867
			8	-0.000806	8	0.513073

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
12	5	7		0.004849		0.529193
				0.000885		100.00
				100.00		66.00
				99.99		
			1	1.111704	2	0.689135
			2	-0.074305	3	0.360458
			3	-0.022000	4	0.278500
			4	-0.008181	5	0.221700
			5	-0.003482	6	0.174969
			6	-0.002172	7	0.147965
			7	-0.001064	8	0.513371
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004864		0.529482
				0.000885		99.95
				99.99		
12	6	6	1	1.111947	2	0.960995
			2	-0.074831	4	0.401078
			3	-0.022013	5	0.222086
			4	-0.010659	6	0.180220
			5	-0.003378	7	0.148144
			6	-0.001066	8	0.513894
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004891		0.529978
				0.000885		99.85
				99.97		
			1	1.112535	2	0.963615
			2	-0.074894	4	0.403011
			3	-0.022043	5	0.225743
			4	-0.012573	6	0.148472
			5	-0.003026	7	0.514795
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.005145		0.530805
				0.000886		99.70
				99.42		
12	6	4	1	1.113404	3	0.857260
			2	-0.075039	5	0.444145
			3	-0.028044	7	0.210624
			4	-0.010821	8	0.516570
				BIAS CORR		
				VAR COEFF		
				0.005841		0.532260
				0.000887		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.79
						99.42
12	8	3	1	1.117698	3	1.082987
			2	-0.092050	6	0.438352
			4	-0.025648	8	0.568722
				BIAS CORR		
				0.006557		
				VAR COEFF		0.535039
				0.000890		98.91
				EFFICIENCY		
				99.43		
12	4	2	1	1.070517	5	0.843789
			3	-0.070517	8	0.622382
				BIAS CORR		
				0.007787		
				VAR COEFF		0.543201
				0.000902		97.42
				EFFICIENCY		
				98.08		
12	8	1	1	1.000000	8	0.846371
				BIAS CORR		
				0.013889		
				VAR COEFF		0.588485
				0.000965		89.92
				EFFICIENCY		
				91.74		
2	7	7	1	1.111855	1	0.825705
			2	-0.074821	2	0.565477
			3	-0.022008	3	0.418245
			4	-0.008186	4	0.324067
			5	-0.003487	5	0.258807
			6	-0.001614	6	0.211000
			7	-0.001738	7	0.870957
				BIAS CORR		
				0.005054		
				VAR COEFF		0.608397
				0.000885		
				EFFICIENCY		100.00
				100.00		97.41
				EFF(M/N)		
				99.97		
12	7	4	1	1.111962	2	0.799679
			2	-0.074833	3	0.419082
			3	-0.022013	4	0.324489
			4	-0.008190	5	0.259063
			5	-0.004635	6	0.211177
			7	-0.002291	7	0.871558
				BIAS CORR		
				0.005074		
				VAR COEFF		0.608786
				0.000885		99.94
				EFFICIENCY		
				99.99		



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	7	5	1	1.112535	2	1.115914
			2	-0.074894	4	0.467077
			3	-0.022043	5	0.259556
			4	-0.012573	6	0.211506
			7	-0.003026	7	0.872623
			BIAS CORR	0.005145		
			VAR COEFF	0.000886		0.609457
			EFFICIENCY	99.94		99.83
12	7	4	1	1.113904	2	1.119295
			2	-0.075039	4	0.653014
			3	-0.028044	6	0.301884
			5	-0.010821	7	0.874492
			BIAS CORR	0.005841		
			VAR COEFF	0.000887		0.610586
			EFFICIENCY	99.81		99.64
12	7	3	1	1.117698	3	0.997505
			2	-0.092050	5	0.525702
			4	-0.025648	7	0.950084
			BIAS CORR	0.006557		
			VAR COEFF	0.000890		0.612571
			EFFICIENCY	99.45		99.32
12	7	2	1	1.070517	4	1.108040
			3	-0.070517	7	1.026220
			BIAS CORR	0.007787		
			VAR COEFF	0.000902		0.618779
			EFFICIENCY	98.10		98.32
12	7	1	1	1.000000	7	1.292717
			BIAS CORR	0.013889		
			VAR COEFF	0.000969		0.652850
			EFFICIENCY	91.76		93.23
12	6	0	1	1.112290	1	0.982665
			2	-0.074868	2	0.674141
			3	-0.072030	3	0.499749
			4	-0.008202	4	0.384387
			5	-0.003900	5	0.311455

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	6	5	6	-0.003690	6	1.470206
			BIAS CORR	0.005255		
			VAR COEFF	0.000885		0.715401
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.93		48.82
			1	1.112537	2	0.952989
			2	-0.074894	3	0.500813
			3	-0.022043	4	0.388938
			4	-0.010693	5	0.311902
			6	-0.004907	6	1.471452
12	6	4	BIAS CORR	0.005381		
			VAR COEFF	0.000886		0.715952
			EFFICIENCY	99.98		99.92
			1	1.113904	2	1.331209
			2	-0.075039	4	0.559473
			3	-0.028044	5	0.312469
			5	-0.010821	6	1.473686
			BIAS CORR	0.005841		
			VAR COEFF	0.000887		0.716911
			EFFICIENCY	99.85		99.79
12	6	3	1	1.117698	2	1.335837
			2	-0.092050	4	0.783653
			4	-0.025648	6	1.585791
			BIAS CORR	0.006557		
			VAR COEFF	0.000890		0.718548
			EFFICIENCY	99.49		99.56
			1	1.070517	3	1.506328
			3	-0.070517	6	1.696553
			BIAS CORR	0.007787		
			VAR COEFF	0.000902		0.723639
12	6	1	EFFICIENCY	98.14		98.86
			1	1.000000	6	1.998913
			BIAS CORR	0.013889		
			VAR COEFF	0.000969		0.748740
			EFFICIENCY	91.80		95.55

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	5	3	1	1.113241	1	1.212792
			2	-0.074969	2	0.634083
			3	-0.022079	3	0.620316
			4	-0.008237	4	0.484145
			5	-0.007956	5	2.527673
				BIAS CORR		0.005800
				VAR COEFF		0.000886
				EFFICIENCY		100.00
				EFF(M/N)		99.84
						40.25
12	5	4	1	1.113904	2	1.178469
			2	-0.075039	3	0.621753
			3	-0.028044	4	0.484927
			5	-0.010821	5	2.530419
				BIAS CORR		0.005841
				VAR COEFF		0.000887
				EFFICIENCY		99.94
						0.868494
						99.90
12	5	2	1	1.117698	2	1.648624
			2	-0.092050	4	0.696903
			4	-0.025648	5	2.535431
				BIAS CORR		0.006557
				VAR COEFF		0.000890
				EFFICIENCY		99.58
						0.869973
						99.73
12	5	2	1	1.070517	3	1.476788
			3	-0.070517	5	2.715544
				BIAS CORR		0.007787
				VAR COEFF		0.000902
				EFFICIENCY		98.23
						0.873407
						99.34
12	5	1	1	1.000000	5	3.188366
				BIAS CORR		0.013089
				VAR COEFF		0.000965
				EFFICIENCY		91.88
						0.892824
						97.18
12	4	4	1	1.115434	1	1.579053
			2	-0.075202	2	1.089875
			3	-0.022193	3	0.814311
			4	-0.018035	4	4.550517
				BIAS CORR		0.006480

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY EFF(M/N)		1.100862 100.00 31.73
12	4	3	1	1.117698	2	1.538774
			2	-0.092050	3	0.816459
			4	-0.025648	4	4.557288
				BIAS CORR VAR COEFF EFFICIENCY		0.006557 1.102285 99.87
12	4	2	1	1.070517	2	2.157481
			3	-0.070517	4	4.846416
				BIAS CORR VAR COEFF EFFICIENCY		0.007787 1.104836 99.64
12	4	1	1	1.000000	4	5.374843
				BIAS CORR VAR COEFF EFFICIENCY		0.013889 1.119541 98.33
12	3	3	1	1.121000	1	2.239417
			2	-0.075793	2	1.553856
			3	-0.045207	3	8.943521
				BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)		0.007576 1.500719 100.00 23.27
12	3	2	1	1.070517	2	2.191861
			3	-0.070517	3	8.963732
				BIAS CORR VAR COEFF EFFICIENCY		0.007787 1.503582 99.81
12	3	1	1	1.000000	3	9.958393
				BIAS CORR VAR COEFF EFFICIENCY		0.013889 1.513903 99.13

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	1.137699	1	3.712088
			2	-0.137699	2	20.813193
		BIAS CORR		0.009527		
				0.000907		2.333847
				100.00		100.00
				97.59		14.97
12	2	1	1	1.000000	2	21.944585
				0.013889		
				0.000965		2.341725
				93.99		99.66
12	1	1	1	1.000000	1	72.000000
				0.013889		
				0.000965		5.000100
				100.00		100.00
				91.73		6.99
12	13	13	1	1.112631	1	0.459592
			2	-0.074895	2	0.315383
			3	-0.022275	3	0.233548
			4	-0.008397	4	0.181024
			5	-0.003635	5	0.144459
			6	-0.001715	6	0.117465
			7	-0.000854	7	0.096609
			8	-0.000438	8	0.079872
			9	-0.000226	9	0.065965
			10	-0.000114	10	0.053987
			11	-0.000054	11	0.043191
			12	-0.000022	12	0.032647
			13	-0.000005	13	0.017997
		BIAS CORR		0.003677		
				0.000641		0.321414
				100.00		100.00
				100.00		100.00
12	13	12	1	1.112634	2	0.447359
			2	-0.074895	3	0.233904
			3	-0.022275	4	0.181183
			4	-0.008397	5	0.144546
			5	-0.003635	6	0.117519

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	J	SCALE
			6	-0.001715	7	0.096647
			7	-0.000454	8	0.079899
			8	-0.000438	9	0.065986
			9	-0.000226	10	0.054003
			10	-0.000115	11	0.043204
			11	-0.000055	12	0.032656
			12	-0.000029	13	0.018002
			BIAS CORR	0.003693		
			VAR COEFF	0.000641		0.321501
			EFFICIENCY	100.00		99.97
12	13	11	1	1.112641	2	0.621124
			2	-0.074896	4	0.262032
			3	-0.022275	5	0.144713
			4	-0.008398	6	0.117621
			5	-0.003635	7	0.096714
			6	-0.001716	8	0.079947
			7	-0.000855	9	0.066022
			8	-0.000438	10	0.054030
			9	-0.000227	11	0.043224
			10	-0.000162	12	0.032671
			12	-0.000041	13	0.018010
			BIAS CORR	0.003704		
			VAR COEFF	0.000641		0.321644
			EFFICIENCY	100.00		99.93
13	13	10	1	1.112655	2	0.622160
			2	-0.074897	4	0.363226
			3	-0.022276	6	0.169224
			4	-0.008398	7	0.096834
			5	-0.003635	8	0.080030
			6	-0.001716	9	0.066081
			7	-0.000855	10	0.054075
			8	-0.000439	11	0.043257
			9	-0.000316	12	0.032695
			11	-0.000122	13	0.018023
			BIAS CORR	0.003746		
			VAR COEFF	0.000641		0.321866
			EFFICIENCY	100.00		99.86
12	13	9	1	1.112682	2	0.623269

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			2	-0.074906	4	0.363952
			3	-0.022277	6	0.237155
			4	-0.008399	8	0.113729
			5	-0.003636	9	0.066198
			6	-0.001717	10	0.054158
			7	-0.001167	11	0.043318
			9	-0.000463	12	0.032737
			11	-0.000122	13	0.019045
			BIAS CORR	0.003755		
			VAR COEFF	0.000642		0.322249
			EFFICIENCY	100.00		99.74
13	13	8	1	1.112737	3	0.557083
			2	-0.074906	5	0.291992
			3	-0.022280	7	0.196065
			4	-0.008401	9	0.093130
			5	-0.003637	10	0.054280
			6	-0.002314	11	0.043406
			8	-0.000904	12	0.032799
			10	-0.000294	13	0.018077
			BIAS CORR	0.003818		
			VAR COEFF	0.000642		0.322805
			EFFICIENCY	99.99		99.57
13	13	7	1	1.112856	3	0.698270
			2	-0.074918	6	0.286373
			3	-0.022286	8	0.163449
			4	-0.003405	10	0.075318
			5	-0.004830	11	0.043572
			7	-0.002038	12	0.032913
			10	-0.000380	13	0.018135
			BIAS CORR	0.003848		
			VAR COEFF	0.000642		0.323796
			EFFICIENCY	99.98		99.26
13	13	6	1	1.113112	4	0.615818
			2	-0.074944	7	0.236669
			3	-0.022296	9	0.136780
			4	-0.010946	11	0.059132
			6	-0.004103	12	0.033111
			9	-0.000821	13	0.018234

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.003950		
				0.000642		0.325428
				99.95		98.77
13	13	5	1	1.113736	5	0.549970
			2	-0.075009	8	0.197655
			3	-0.022329	10	0.114811
			4	-0.012909	12	0.043303
			7	-0.003490	13	0.018445
				BIAS CORR		
				0.004277		
				VAR COEFF		
				0.000642		0.328756
				EFFICIENCY		97.77
11	13	4	1	1.115240	6	0.584703
			2	-0.075163	10	0.152536
			3	-0.032739	12	0.044215
			6	-0.007338	13	0.018804
				BIAS CORR		
				0.004580		
				VAR COEFF		
				0.000643		0.334888
				EFFICIENCY		95.98
13	13	3	1	1.119126	7	0.535281
			2	-0.092177	11	0.125961
			4	-0.026949	13	0.023630
				BIAS CORR		
				0.005529		
				VAR COEFF		
				0.000645		0.347512
				EFFICIENCY		92.49
13	13	2	1	1.072507	8	0.526097
			3	-0.072507	12	0.097757
				BIAS CORR		
				0.006587		
				VAR COEFF		
				0.000654		0.387033
				EFFICIENCY		83.05
13	13	1	1	1.000000	11	0.318092
				BIAS CORR		
				0.011834		
				VAR COEFF		
				0.000700		0.500481
				EFFICIENCY		64.22
13	12	12	1	1.112634	1	0.498365
			2	-0.074895	2	0.342037



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.022275	3	0.253330
			4	-0.008397	4	0.196403
			5	-0.003635	5	0.156780
			6	-0.001715	6	0.127539
			7	-0.000854	7	0.104960
			8	-0.000438	8	0.086858
			9	-0.000226	9	0.071848
			10	-0.000115	10	0.058974
			11	-0.000055	11	0.047488
			12	-0.000029	12	0.061664
		BIAS CORR		0.003693		
		VAR COEFF		0.000641		0.345182
		EFFICIENCY		100.00		100.00
		EFF(M/N)		100.00		92.31
12	12	11	1	1.112641	2	0.485159
			2	-0.074896	3	0.253723
			3	-0.022275	4	0.196580
			4	-0.008398	5	0.156978
			5	-0.003635	6	0.127600
			6	-0.001716	7	0.105003
			7	-0.000855	8	0.086990
			8	-0.000438	9	0.071872
			9	-0.000227	10	0.058992
			10	-0.000162	11	0.047503
			12	-0.000041	12	0.061682
		BIAS CORR		0.003704		
		VAR COEFF		0.000641		0.348284
		EFFICIENCY		100.00		99.97
12	12	10	1	1.112655	2	0.673672
			2	-0.074897	4	0.284290
			3	-0.022276	5	0.157066
			4	-0.008398	6	0.127715
			5	-0.003635	7	0.105080
			6	-0.001716	8	0.086946
			7	-0.000855	9	0.071914
			8	-0.000439	10	0.059024
			9	-0.000316	11	0.047527
			11	-0.000122	12	0.061713
		BIAS CORR		0.003746		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.000641 100.00 0.348452 99.92
12	12	9	1	1.112682	2	0.674838
			2	-0.074900	4	0.394146
			3	-0.022277	6	0.183734
			4	-0.008399	7	0.105216
			5	-0.003636	8	0.087041
			6	-0.001717	9	0.071983
			7	-0.001167	10	0.059076
			9	-0.000463	11	0.047567
			11	-0.000122	12	0.061761
				BIAS CORR		
				0.003759		
				VAR COEFF		0.348714
				EFFICIENCY		99.85
12	12	8	1	1.112737	2	0.676113
			2	-0.074906	4	0.394976
			3	-0.022280	6	0.257573
			4	-0.008401	8	0.123670
			5	-0.003637	9	0.072118
			6	-0.002314	10	0.059174
			8	-0.000904	11	0.047638
			10	-0.000294	12	0.061847
				BIAS CORR		
				0.003818		
				VAR COEFF		0.349166
				EFFICIENCY		99.72
12	12	7	1	1.112856	3	0.604491
			2	-0.074918	5	0.317035
			3	-0.022286	7	0.213124
			4	-0.008405	9	0.101428
			5	-0.004830	10	0.059316
			7	-0.002038	11	0.047743
			10	-0.000380	12	0.061971
				BIAS CORR		
				0.003848		
				VAR COEFF		0.349823
				EFFICIENCY		99.53
12	12	6	1	1.113117	3	0.757980
			2	-0.074944	6	0.311129

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 12)

SHAPE PARAMETER = 0.50

N	P	L	I	LOCATION		SCALE	
			3	=0.022249	8	0.177413	
			4	=0.010446	10	0.087267	
			6	=0.004107	11	0.047430	
			7	=0.000871	12	0.02147	
			BIAS CORR	0.003496			
			VAN CURT	0.000442		0.350477	
			EFFICIENCY	77.76		79.20	
11	12	1	1	1.113736	6	0.658747	
			2	=0.074007	7	0.751610	
			3	=0.027374	8	0.147740	
			4	=0.017404	11	0.064480	
			7	=0.003496	12	0.02147	
			BIAS CORR	0.000777			
			VAN CURT	0.000647		0.357486	
			EFFICIENCY	74.46		78.65	
11	12	6	1	1.113736	6	0.658747	
			2	=0.074007	8	0.710430	
			3	=0.031787	11	0.126404	
			4	=0.017404	12	0.074171	
			BIAS CORR	0.000601			
			VAN CURT	0.000601		0.356917	
			EFFICIENCY	74.76		77.55	
11	12	7	1	1.117124	6	0.637117	
			2	=0.073177	10	0.127312	
			4	=0.026404	12	0.075007	
			BIAS CORR	0.000674			
			VAN CURT	0.000641		0.366777	
			EFFICIENCY	74.44		76.54	
11	12	7	1	1.072607	8	0.626047	
			2	=0.072607	12	0.047137	
			BIAS CORR	0.000607			
			VAN CURT	0.000644		0.367311	
			EFFICIENCY	78.94		84.46	
11	12	1	1	1.000000	11	0.010077	
			BIAS CORR	0.011034			
			VAN CURT	0.000700		0.500431	

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 12)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION		I	SCALE
				EFFICIENCY	91.61		69.97
12	11	11	1	1.117645	1	0.945614	
			2	=0.074896	2	0.974962	
			3	=0.077275	3	0.977514	
			4	=0.008349	4	0.979247	
			5	=0.003635	5	0.97924	
			6	=0.001714	6	0.979713	
			7	=0.000895	7	0.97977	
			8	=0.000437	8	0.979617	
			9	=0.000277	9	0.979374	
			10	=0.000115	10	0.965460	
			11	=0.000046	11	0.934770	
				BIAS CORR	0.003734		
				VAN CORR	0.002641	0.980465	
				EFFICIENCY	100.00	100.00	
				EFFICIENCY	100.00	84.44	
12	11	12	1	1.117645	2	0.931765	
			2	=0.074897	3	0.977491	
			3	=0.077274	4	0.978647	
			4	=0.008349	5	0.977076	
			5	=0.003635	6	0.976044	
			6	=0.001714	7	0.975379	
			7	=0.000895	8	0.974649	
			8	=0.000437	9	0.973853	
			9	=0.000212	10	0.963840	
			11	=0.000127	11	0.933973	
							BIAS CORR
				VAN CORR	0.002641	0.960507	
				EFFICIENCY	100.00	74.47	
12	11	13	1	1.117645	2	0.937016	
			2	=0.074906	3	0.978347	
			3	=0.077277	4	0.977750	
			4	=0.008349	5	0.976177	
			5	=0.003635	6	0.975667	
			6	=0.001717	7	0.974716	
			7	=0.000897	8	0.973793	
			8	=0.000437	9	0.972879	
			10	=0.000212	10	0.963879	
			11	=0.000127	11	0.933977	
							BIAS CORR
				VAN CORR	0.002641		
				EFFICIENCY	100.00		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER  $\alpha = 0.90$

L	M	L	1	LOCATION	1	SCALE
				BIAS CORR VAR CORR EFFICIENCY		
				0.003759 0.000647 100.00		0.300783 99.71
11	11	0	1	1.112727	2	0.734147
			2	=0.074904	4	0.437096
			3	=0.077780	6	0.201677
			4	=0.008401	7	0.119678
			5	=0.003637	8	0.079877
			6	=0.002314	9	0.074605
			7	=0.000904	10	0.069947
			10	=0.000744	11	0.109716
				BIAS CORR VAR CORR EFFICIENCY		0.301153 99.81
11	11	7	1	1.112094	2	0.740631
			2	=0.074912	4	0.433076
			3	=0.077781	6	0.207811
			4	=0.008406	8	0.134170
			5	=0.004036	9	0.074446
			7	=0.002036	10	0.069164
			10	=0.000980	11	0.109478
				BIAS CORR VAR CORR EFFICIENCY		0.301000 99.87
11	11	4	1	1.113117	2	0.667946
			2	=0.074944	4	0.347067
			3	=0.077770	6	0.234307
			4	=0.010742	7	0.111460
			6	=0.004103	10	0.063080
			7	=0.000871	11	0.109716
				BIAS CORR VAR CORR EFFICIENCY		0.301460 99.48
11	11	1	1	1.113724	2	0.631677
			2	=0.075004	4	0.347737
			3	=0.077787	6	0.174117
			4	=0.017407	11	0.071761

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 19)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
11	11	0	7	-0.003490	11	0.136309
			BIAS CORR	0.004277		
			VAN COEFF	0.000642		0.383867
			EFFICIENCY	99.90		99.11
17	11	0	1	1.119746	4	0.734304
			2	-0.079163	7	0.783766
			3	-0.032734	9	0.168709
			6	-0.007338	11	0.199863
17	11	0	BIAS CORR	0.004980		
			VAN COEFF	0.000643		0.386743
			EFFICIENCY	99.76		98.50
17	11	1	1	1.114124	6	0.781338
			7	-0.047177	9	0.773711
			9	-0.076444	11	0.190378
			BIAS CORR	0.004974		
17	11	1	VAN COEFF	0.000645		0.341741
			EFFICIENCY	99.90		97.17
17	11	2	1	1.077407	7	0.631046
			3	-0.077407	11	0.143117
			BIAS CORR	0.006587		
			VAN COEFF	0.000684		0.404446
17	11	2	EFFICIENCY	98.08		92.47
17	11	3	1	1.000000	11	0.318047
			BIAS CORR	0.011836		
			VAN COEFF	0.000700		0.307481
			EFFICIENCY	91.61		76.07
19	19	1	1	1.117471	1	0.603347
			2	-0.074844	2	0.414327
			3	-0.077777	3	0.307744
			4	-0.008344	4	0.238809
			5	-0.003426	5	0.170687
			6	-0.001714	6	0.109443
			7	-0.000889	7	0.174317
			8	-0.000434	8	0.104476
			9	-0.000278	9	0.086910
			10	-0.000227	10	0.747254

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.96

A	P	L	I	LOCATION	I	SCALE		
				BIAS CORR	0.003798			
				VAR COEFF	0.000641	0.419674		
				EFFICIENCY	100.00	100.00		
				EFF (M/11)	100.00	76.34		
11	10	4	1	1.112687	2	0.987417		
			2	-0.014401	3	0.307784		
			3	-0.027277	4	0.738740		
			4	-0.008344	5	0.140817		
			5	-0.003634	6	0.155578		
			6	-0.001717	7	0.128373		
			7	-0.000896	8	0.106770		
			8	-0.000607	9	0.064446		
			9	-0.000244	10	0.250992		
						BIAS CORR	0.001804	
			VAR COEFF	0.000447	0.419674			
			EFFICIENCY	100.00	44.94			
11	10	4	1	1.117131	2	0.816640		
			2	-0.014406	3	0.303176		
			3	-0.027286	4	0.141061		
			4	-0.004401	5	0.155444		
			5	-0.002447	6	0.176481		
			6	-0.001314	7	0.104744		
			7	-0.000704	8	0.064407		
			8	-0.000294	9	0.250608		
						BIAS CORR	0.003818	
						VAR COEFF	0.000647	0.470076
			EFFICIENCY	44.94	44.71			
13	12	7	1	1.117894	2	0.878743		
			2	-0.014418	3	0.478671		
			3	-0.027286	4	0.773867		
			4	-0.004401	5	0.178464		
			5	-0.002447	6	0.104414		
			6	-0.001314	7	0.064108		
			7	-0.000704	8	0.250157		
			8	-0.000294	9			
						BIAS CORR	0.003844	
						VAR COEFF	0.000647	0.477413
			EFFICIENCY	44.94	44.81			

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.90

N	P	L	I	LOCATION	I	SCALE
11	12	6	1	1.113112	2	0.820050
			2	-0.074944	4	0.480052
			3	-0.022298	6	0.314262
			4	-0.010946	8	0.191777
			5	-0.004103	9	0.084302
			6	-0.000021	10	0.291210
			BIAS CORR			
			VAR CORR			
			EFFICIENCY			
12	12	5	1	1.113736	3	0.734002
			2	-0.079009	5	0.386116
			3	-0.022329	7	0.261014
			4	-0.012409	9	0.129381
			5	-0.003490	10	0.291870
			BIAS CORR			
			VAR CORR			
			EFFICIENCY			
13	12	4	1	1.114240	3	0.621587
			2	-0.079163	6	0.374887
			3	-0.032739	8	0.219222
			4	-0.007338	10	0.281221
			BIAS CORR			
			VAR CORR			
			EFFICIENCY			
12	11	5	1	1.114126	5	0.722819
			2	-0.042177	8	0.262685
			4	-0.026449	10	0.284019
			BIAS CORR			
			VAR CORR			
			EFFICIENCY			
11	11	2	1	1.072807	6	0.776648
			3	-0.072807	10	0.334110
			BIAS CORR			
			VAR CORR			
			EFFICIENCY			
11	12	1	1	1.000000	10	0.474196



TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	P	L	I	LOCATION	I	SCALE
				BIAS CORR	0.011834	
				VAR CORR	0.000700	0.902012
				EFFICIENCY	91.61	93.59
17	4	4	1	1.112728	1	0.676054
			2	-0.074909	2	0.464607
			3	-0.022279	3	0.344674
			4	-0.008400	4	0.267744
			5	-0.003637	5	0.214293
			6	-0.001711	6	0.173091
			7	-0.000891	7	0.144718
			8	-0.000441	8	0.120764
			9	-0.000240	9	0.1028657
						BIAS CORR
			VAR CORR	0.000647	0.467443	
			EFFICIENCY	100.00	100.00	
			EFFIM/10	54.74	68.64	
18	4	4	1	1.112728	1	0.676054
			2	-0.074909	2	0.464607
			3	-0.022279	3	0.344674
			4	-0.008400	4	0.267744
			5	-0.003637	5	0.214293
			6	-0.001711	6	0.173091
			7	-0.000891	7	0.144718
			8	-0.000441	8	0.120764
			9	-0.000240	9	0.1028657
						BIAS CORR
			VAR CORR	0.000647	0.467443	
			EFFICIENCY	100.00	100.00	
19	4	4	1	1.112728	1	0.676054
			2	-0.074909	2	0.464607
			3	-0.022279	3	0.344674
			4	-0.008400	4	0.267744
			5	-0.003637	5	0.214293
			6	-0.001711	6	0.173091
			7	-0.000891	7	0.144718
			8	-0.000441	8	0.120764
			9	-0.000240	9	0.1028657
						BIAS CORR
			VAR CORR	0.000647	0.467443	
			EFFICIENCY	100.00	100.00	
20	4	4	1	1.112728	1	0.676054
			2	-0.074909	2	0.464607
			3	-0.022279	3	0.344674
			4	-0.008400	4	0.267744
			5	-0.003637	5	0.214293
			6	-0.001711	6	0.173091
			7	-0.000891	7	0.144718
			8	-0.000441	8	0.120764
			9	-0.000240	9	0.1028657
						BIAS CORR
			VAR CORR	0.000647	0.467443	
			EFFICIENCY	100.00	100.00	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	9	6	1	1.113112	2	0.917374
			2	-0.074944	4	0.537901
			3	-0.022298	6	0.292081
			4	-0.010946	7	0.149356
			6	-0.004103	8	0.121292
			9	-0.000871	9	0.429638
			BIAS CORR		0.003490	
			VAR COEFF		0.000647	
			EFFICIENCY		99.96	
13	9	7	1	1.113736	2	0.919618
			2	-0.079009	4	0.534933
			3	-0.022329	6	0.294281
			4	-0.012909	8	0.171497
			7	-0.003490	9	0.430953
			BIAS CORR		0.004277	
			VAR COEFF		0.000642	
			EFFICIENCY		99.91	
14	9	8	1	1.119240	3	0.823844
			2	-0.079163	5	0.434869
			3	-0.032734	7	0.249217
			6	-0.007338	9	0.472913
			BIAS CORR		0.004980	
			VAR COEFF		0.000643	
			EFFICIENCY		99.77	
15	9	9	1	1.119126	4	0.910868
			2	-0.072177	7	0.394904
			4	-0.026444	9	0.479980
			BIAS CORR		0.003974	
			VAR COEFF		0.000649	
			EFFICIENCY		99.40	
17	9	11	1	1.072907	5	0.976412
			3	-0.072907	9	0.394433
			BIAS CORR		0.006987	
			VAR COEFF		0.000694	
			EFFICIENCY		98.06	
19	9	13	1	1.000000	9	0.746407

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 17)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.011834	
				VAR COEFF	0.000700	0.528043
				EFFICIENCY	91.61	88.62
17	P	0	1	1.112845	1	0.769051
			2	-0.074917	2	0.928937
			3	-0.022289	3	0.392832
			4	-0.008404	4	0.305648
			5	-0.003641	5	0.243155
			6	-0.001721	6	0.200748
			7	-0.000860	7	0.166778
			8	-0.001017	8	0.706404
				BIAS CORR	0.004022	
				VAR COEFF	0.000642	0.528918
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.98	60.77
18	0	7	1	1.112846	2	0.744721
			2	-0.074422	3	0.393904
			3	-0.022288	4	0.305973
			4	-0.008406	5	0.249347
			5	-0.003642	6	0.200874
			6	-0.002321	7	0.166872
			8	-0.001316	8	0.706701
				BIAS CORR	0.004034	
				VAR COEFF	0.000642	0.529161
				EFFICIENCY	100.00	99.95
19	0	7	1	1.112130	2	1.042983
			2	-0.074446	4	0.442179
			3	-0.022244	5	0.249704
			4	-0.010447	6	0.201114
			6	-0.003614	7	0.167041
			8	-0.001314	8	0.707340
				BIAS CORR	0.004097	
				VAR COEFF	0.000642	0.524965
				EFFICIENCY	99.97	99.89
19	0	6	1	1.112786	2	1.044878
			2	-0.079004	4	0.614265
			3	-0.022324	6	0.288804

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
11	0	4	4	-0.012909	7	0.167334
			7	-0.003490	8	0.708303
			BIAS CORR	0.004277		
			VAR COEFF	0.000642		0.530205
			EFFICIENCY	99.92		99.76
			1	1.115240	2	1.047775
			2	-0.075163	4	0.616102
13	0	4	3	-0.032734	6	0.404664
			6	-0.007338	8	0.760127
			BIAS CORR	0.004580		
			VAR COEFF	0.000643		0.531350
			EFFICIENCY	99.78		99.94
			1	1.119126	3	1.176598
			2	-0.097177	6	0.489234
15	0	4	4	-0.026949	8	0.771427
			BIAS CORR	0.003129		
			VAR COEFF	0.000619		0.533447
			EFFICIENCY	99.42		99.15
			1	1.072901	3	0.929880
			3	-0.072901	8	0.634709
			BIAS CORR	0.006587		
15	4	4	3	-0.072901	8	0.634709
			BIAS CORR	0.006587		
			VAR COEFF	0.000654		0.534818
			EFFICIENCY	95.07		97.98
			1	1.000000	8	1.047052
			BIAS CORR	0.011834		
			VAR COEFF	0.000700		0.534240
			EFFICIENCY	91.62		92.11
15	7	7	1	1.113083	1	0.842243
			2	-0.074941	2	0.614407
			3	-0.022297	3	0.497006
			4	-0.008412	4	0.356788
			5	-0.003647	5	0.286510
			6	-0.001727	6	0.235479
			7	-0.002088	7	1.148270
			BIAS CORR	0.004211		
			VAR COEFF	0.000642		0.605177

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				99.96		92.85
11	7	0	1	1.115186	2	0.870853
			2	-0.074952	3	0.457822
			3	-0.027307	4	0.356699
			4	-0.008416	5	0.26777
			5	-0.004845	6	0.235650
			7	-0.002671	7	1.140940
				BIAS CORR		
				0.004225		
				VAR COEFF		0.608494
				EFFICIENCY		99.95
13	7	3	1	1.113736	2	1.211514
			2	-0.075004	4	0.915176
			3	-0.027379	5	0.287238
			4	-0.012409	6	0.235458
			7	-0.003440	7	1.150068
				BIAS CORR		
				0.004277		
				VAR COEFF		0.609042
				EFFICIENCY		99.86
11	7	4	1	1.115240	2	1.214467
			2	-0.075163	4	0.716564
			3	-0.032714	6	0.338641
			6	-0.007338	7	1.151446
				BIAS CORR		
				0.004580		
				VAR COEFF		0.609917
				EFFICIENCY		99.71
13	7	5	1	1.114126	3	1.090146
			2	-0.042177	5	0.980058
			4	-0.026944	7	1.239020
				BIAS CORR		
				0.009524		
				VAR COEFF		0.611453
				EFFICIENCY		99.46
13	7	7	1	1.072907	4	1.212952
			3	-0.072907	7	1.326588
				BIAS CORR		
				0.006587		
				VAR COEFF		0.616305

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	J	LOCATION	J	SCALE
				EFFICIENCY		98.67
11	7	1	1	1.000000	7	1.632386
				BIAS CORR		
				VAR COEFF		0.642943
				EFFICIENCY		94.59
11	6	1	1	1.113971	1	1.062667
			2	-0.074992	2	0.732980
			3	-0.022321	3	0.546372
			4	-0.008429	4	0.427139
			5	-0.003661	5	0.344765
			6	-0.004169	6	1.877593
				BIAS CORR		
				VAR COEFF		0.713207
				EFFICIENCY		100.00
				(AS(R/N))		44.94
11	6	2	1	1.113807	2	1.038531
			2	-0.079016	3	0.547406
			3	-0.022332	4	0.427673
			4	-0.010982	5	0.345049
			6	-0.009477	6	1.878938
				BIAS CORR		
				VAR COEFF		0.713671
				EFFICIENCY		99.94
11	6	4	1	1.119240	2	1.446132
			2	-0.079163	4	0.617286
			3	-0.032739	5	0.345720
			6	-0.007338	6	1.881271
				BIAS CORR		
				VAR COEFF		0.716453
				EFFICIENCY		99.83
11	6	5	1	1.119126	2	1.450155
			2	-0.092177	4	0.859969
			4	-0.076944	6	2.008189
				BIAS CORR		
				VAR COEFF		0.717722
				EFFICIENCY		99.65

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

P	M	L	I	LOCATION	I	SCALE
13	6	2	1	1.072507	3	1.638821
			3	-0.072507	6	2.133700
			BIAS CORR	0.006587		
			VAR COEFF	0.000654		0.721800
			EFFICIENCY	98.13		99.09
13	6	1	1	1.000000	6	2.475305
			BIAS CORR	0.011834		
			VAR COEFF	0.000700		0.742046
			EFFICIENCY	91.69		96.38
13	5	5	1	1.114602	1	1.312508
			2	-0.075098	2	0.907438
			3	-0.022371	3	0.678440
			4	-0.008463	4	0.532478
			5	-0.008670	5	3.150155
			BIAS CORR	0.004875		
			VAR COEFF	0.000643		0.867470
			EFFICIENCY	100.00		100.00
			LFF(M/N)	99.82		37.05
13	5	4	1	1.115243	2	1.285045
			2	-0.075164	3	0.679833
			3	-0.028402	4	0.533181
			5	-0.011678	5	3.153051
			BIAS CORR	0.004906		
			VAR COEFF	0.000643		0.868197
13	5	3	1	1.119126	2	1.791784
			2	-0.092177	4	0.768898
			4	-0.026949	5	3.158154
			BIAS CORR	0.005529		
			VAR COEFF	0.000645		0.869405
			EFFICIENCY	99.58		99.78
13	5	2	1	1.072507	3	1.616052
			3	-0.072507	5	3.359285
			BIAS CORR	0.006587		
			VAR COEFF	0.000654		0.872279

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		98.23
						99.46
13	5	1	1	1.000000	5	3.888457
				BIAS CORR		0.011834
				VAR COEFF		0.000700
				EFFICIENCY		91.77
						97.68
13	4	4	1	1.116925	1	1.710102
			2	-0.075337	2	1.186294
			3	-0.022484	3	0.890685
			4	-0.019104	4	5.562128
				BIAS CORR		0.005470
				VAR COEFF		0.000644
				EFFICIENCY		1.100723
				EFF(M/N)		100.00
						29.20
13	4	3	1	1.119126	2	1.678759
			2	-0.092177	3	0.892756
			4	-0.026949	4	5.569134
				BIAS CORR		0.005529
				VAR COEFF		0.000645
				EFFICIENCY		1.101925
						99.89
13	4	2	1	1.072507	2	2.345382
			3	-0.072507	4	5.889543
				BIAS CORR		0.006587
				VAR COEFF		0.000654
				EFFICIENCY		1.104008
						99.70
13	4	1	1	1.000000	4	6.474869
				BIAS CORR		0.011834
				VAR COEFF		0.000700
				EFFICIENCY		1.116221
						98.61
13	3	3	1	1.122717	1	2.426832
			2	-0.075932	2	1.691738
			3	-0.046784	3	10.759677
				BIAS CORR		0.006420
				VAR COEFF		0.000648
				EFFICIENCY		1.500607
				EFF(M/N)		100.00
						21.42



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	n	L	I	LOCATION	I	SCALE
13	3	2	1	1.072507	2	2.391876
			3	-0.072507	3	10.780246
			BIAS CORR	0.006587		
			VAR COEFF	0.000654		1.503028
			EFFICIENCY	98.77		99.84
11	3	1	1	1.000000	3	11.875050
			BIAS CORR	0.011834		
			VAR COEFF	0.000700		1.511665
			EFFICIENCY	92.47		99.27
13	2	2	1	1.139845	1	4.024694
			2	-0.139845	2	24.708836
			BIAS CORR	0.008099		
			VAR COEFF	0.000650		2.333764
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.51		13.77
13	2	1	1	1.000000	2	25.944563
			BIAS CORR	0.011834		
			VAR COEFF	0.000700		2.340438
			EFFICIENCY	93.94		99.72
13	1	1	1	1.000000	1	84.500004
			BIAS CORR	0.011834		
			VAR COEFF	0.000700		5.000000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.61		6.43

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE			
11	11	11	1	1.085007	1	0.172411			
			2	-0.045653	2	0.146153			
			3	-0.018417	3	0.129293			
			4	-0.009116	4	0.116954			
			5	-0.004919	5	0.107155			
			6	-0.002952	6	0.098901			
			7	-0.001735	7	0.091592			
			8	-0.001084	8	0.084795			
			9	-0.000641	9	0.078082			
			10	-0.000355	10	0.070757			
			11	-0.000134	11	0.058021			
BIAS CORR				0.029988					
VAR COEFF				0.004223		0.162540			
EFFICIENCY				100.00		100.00			
EFF(M/N)				100.00		100.00			
11	11	10	1	1.085027	2	0.211435			
			2	-0.045654	3	0.129414			
			3	-0.018417	4	0.117050			
			4	-0.009116	5	0.107196			
			5	-0.004919	6	0.098971			
			6	-0.002953	7	0.091624			
			7	-0.001735	8	0.084840			
			8	-0.001085	9	0.078116			
			9	-0.000642	10	0.070789			
			10	-0.000305	11	0.058047			
			BIAS CORR				0.030197		
VAR COEFF				0.004223		0.162612			
EFFICIENCY				100.00		99.96			
11	11	9	1	1.085049	2	0.293106			
			2	-0.045657	4	0.168731			
			3	-0.018416	5	0.107237			
			4	-0.009119	6	0.099139			
			5	-0.004918	7	0.091620			
			6	-0.002954	8	0.084943			
			7	-0.001736	9	0.078159			
			8	-0.001568	10	0.070841			
			10	-0.000682	11	0.058087			
			BIAS CORR				0.030260		
			VAR COEFF				0.004223		0.162723

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				100.00		99.89
				EFFICIENCY		
11	11	8	1	1.085087	2	0.293594
			2	-0.045664	4	0.236320
			3	-0.018410	6	0.141140
			4	-0.009126	7	0.091677
			5	-0.004916	8	0.085111
			6	-0.004096	9	0.078230
			8	-0.002192	10	0.070932
			10	-0.000682	11	0.058155
				BIAS CORR		
				0.030308		
				VAR COEFF		
				0.004223		0.162912
				EFFICIENCY		99.77
11	11	7	1	1.095161	3	0.314610
			2	-0.045652	5	0.217745
			3	-0.018436	7	0.129725
			4	-0.009109	8	0.085089
			5	-0.006812	9	0.078502
			7	-0.003605	10	0.071072
			9	-0.001547	11	0.058284
				BIAS CORR		
				0.030640		
				VAR COEFF		
				0.004223		0.163266
				EFFICIENCY		99.55
11	11	6	1	1.085309	3	0.315992
			2	-0.045681	5	0.218756
			3	-0.018419	7	0.189261
			4	-0.012216	9	0.106899
			6	-0.007053	10	0.071381
			9	-0.001940	11	0.058526
				BIAS CORR		
				0.030793		
				VAR COEFF		
				0.004224		0.163921
				EFFICIENCY		99.16
11	11	5	1	1.085584	4	0.408680
			2	-0.045687	7	0.224621
			3	-0.024132	9	0.107652
			5	-0.012031	10	0.071888
			8	-0.003733	11	0.058921
				BIAS CORR		
				0.031297		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.165017 98.50
11	11	4	1	1.036255	5	0.418937
			2	-0.057330	8	0.211436
			4	-0.022190	10	0.094976
			7	-0.006735	11	0.059744
				BIAS CORR		
				0.032022		
				VAR COEFF		0.167242
				EFFICIENCY		97.19
11	11	3	1	1.087866	6	0.431825
			2	-0.066083	9	0.203963
			5	-0.021784	11	0.074165
				BIAS CORR		
				0.034190		
				VAR COEFF		0.172494
				EFFICIENCY		94.23
11	11	2	1	1.062357	8	0.455353
			3	-0.062357	11	0.090840
				BIAS CORR		
				0.038177		
				VAR COEFF		0.188052
				EFFICIENCY		86.43
11	11	1	1	1.000000	9	0.556268
				BIAS CORR		
				0.048669		
				VAR COEFF		0.241926
				EFFICIENCY		67.19
11	10	10	1	1.085027	1	0.189757
			2	-0.045654	2	0.160891
			3	-0.018417	3	0.142239
			4	-0.009116	4	0.128827
			5	-0.004919	5	0.117952
			6	-0.002953	6	0.109009
			7	-0.001735	7	0.100946
			8	-0.001085	8	0.093507
			9	-0.000642	9	0.086377
			10	-0.000505	10	0.148919
				BIAS CORR		
				0.030197		
				VAR COEFF		0.178810

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		90.75
11	10	9	1	1.085049	2	0.232751
			2	-0.045657	3	0.142439
			3	-0.018416	4	0.128938
			4	-0.009119	5	0.118003
			5	-0.004918	6	0.109091
			6	-0.002954	7	0.100986
			7	-0.001736	8	0.093645
			8	-0.001568	9	0.086419
			10	-0.000682	10	0.148992
				BIAS CORR		
				VAR COEFF		0.178897
				EFFICIENCY		99.95
11	10	9	1	1.085087	2	0.322664
			2	-0.045664	4	0.185833
			3	-0.018410	5	0.118056
			4	-0.009126	6	0.109283
			5	-0.004916	7	0.100989
			6	-0.004096	8	0.093765
			8	-0.002192	9	0.086473
			10	-0.000682	10	0.149108
				BIAS CORR		
				VAR COEFF		0.179032
				EFFICIENCY		99.88
11	10	7	1	1.085161	2	0.323240
			2	-0.045652	4	0.260273
			3	-0.018436	6	0.155540
			4	-0.009109	7	0.101063
			5	-0.006812	8	0.093961
			7	-0.003605	9	0.086561
			9	-0.001547	10	0.149309
				BIAS CORR		
				VAR COEFF		0.179261
				EFFICIENCY		99.75
11	10	6	1	1.085309	3	0.346504
			2	-0.045681	5	0.239922

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.018419	7	0.143041
			4	-0.012216	8	0.093958
			6	-0.007053	9	0.086881
			9	-0.001940	10	0.149655
			BIAS CORR	0.030793		
			VAR COEFF	0.004224		0.179692
			EFFICIENCY	99.97		99.51
11	10	5	1	1.085584	3	0.437224
			2	-0.045687	6	0.265814
			3	-0.024132	8	0.131175
			5	-0.012031	9	0.087232
			8	-0.003733	10	0.150355
			BIAS CORR	0.031297		
			VAR COEFF	0.004225		0.180490
			EFFICIENCY	99.95		99.07
11	10	4	1	1.086255	4	0.450726
			2	-0.057330	7	0.248022
			4	-0.022190	9	0.119206
			7	-0.006735	10	0.151504
			BIAS CORR	0.032022		
			VAR COEFF	0.004228		0.181822
			EFFICIENCY	99.88		98.34
11	10	3	1	1.087866	5	0.462808
			2	-0.066083	8	0.234134
			5	-0.021784	10	0.178352
			BIAS CORR	0.034190		
			VAR COEFF	0.004234		0.184545
			EFFICIENCY	99.73		96.89
11	10	2	1	1.062357	7	0.479107
			3	-0.062357	10	0.207936
			BIAS CORR	0.038177		
			VAR COEFF	0.004252		0.193553
			EFFICIENCY	99.32		92.38
11	10	1	1	1.000000	9	0.556268
			BIAS CORR	0.048669		
			VAR COEFF	0.004335		0.241926

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				97.41		73.91
				EFFICIENCY		
11	9	9	1	1.085080	1	0.211160
			2	-0.045657	2	0.178873
			3	-0.018420	3	0.158690
			4	-0.009116	4	0.143007
			5	-0.004922	5	0.131777
			6	-0.002953	6	0.121249
			7	-0.001737	7	0.112755
			8	-0.001087	8	0.104613
			9	-0.001189	9	0.274996
				BIAS CORR		
				0.030536		
				VAR COEFF		0.198744
				0.004223		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		81.78
11	9	8	1	1.085105	2	0.258852
			2	-0.045655	3	0.152854
			3	-0.018425	4	0.143139
			4	-0.009112	5	0.131841
			5	-0.004926	6	0.121346
			6	-0.002953	7	0.112806
			7	-0.002488	8	0.104679
			9	-0.001546	9	0.275146
				BIAS CORR		
				0.030590		
				VAR COEFF		0.198852
				0.004223		
				EFFICIENCY		99.95
				100.00		
11	9	7	1	1.085161	2	0.359159
			2	-0.045652	4	0.206609
			3	-0.018436	5	0.131913
			4	-0.009109	6	0.121572
			5	-0.006812	7	0.112820
			7	-0.003605	8	0.104822
			9	-0.001547	9	0.275369
				BIAS CORR		
				0.030640		
				VAR COEFF		0.199019
				0.004223		
				EFFICIENCY		99.86
				99.99		
11	9	6	1	1.085309	2	0.359857
			2	-0.045681	4	0.289830

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.018419	6	0.173284
			4	-0.012216	7	0.112921
			6	-0.007053	8	0.105058
			9	-0.001940	9	0.275753
			BIAS CORR	0.030793		
			VAR COEFF	0.004224		0.199306
			EFFICIENCY	99.98		99.72
11	9	5	1	1.085584	3	0.385835
			2	-0.045687	5	0.267479
			3	-0.024132	7	0.159668
			5	-0.012031	8	0.105082
			8	-0.003733	9	0.276595
			BIAS CORR	0.031297		
			VAR COEFF	0.004225		0.199835
			EFFICIENCY	99.95		99.45
11	9	6	1	1.086255	3	0.487314
			2	-0.057330	6	0.296549
			4	-0.022190	8	0.146756
			7	-0.006735	9	0.277979
			BIAS CORR	0.032022		
			VAR COEFF	0.004228		0.200834
			EFFICIENCY	99.89		98.96
11	9	7	1	1.087866	4	0.502777
			2	-0.066083	7	0.277384
			5	-0.021784	9	0.315417
			BIAS CORR	0.034190		
			VAR COEFF	0.004234		0.202496
			EFFICIENCY	99.74		98.15
11	9	8	1	1.062357	6	0.523427
			3	-0.062357	9	0.355334
			BIAS CORR	0.038177		
			VAR COEFF	0.004252		0.208343
			EFFICIENCY	99.33		95.39
11	9	1	1	1.000000	9	0.556268
			BIAS CORR	0.048669		
			VAR COEFF	0.004335		0.241926



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		97.41
						62.15
11	6	6	1	1.085185	1	0.237816
			2	-0.045669	2	0.202363
			3	-0.018418	3	0.177894
			4	-0.004124	4	0.162747
			5	-0.004920	5	0.147768
			6	-0.002498	6	0.137638
			7	-0.001740	7	0.127529
			8	-0.002361	8	0.449390
				BIAS CORR		0.031027
				VAR COEFF		0.004224
				EFFICIENCY		100.00
				EFFIM/N1		99.98
						72.66
11	6	7	1	1.085223	2	0.292460
			2	-0.045672	3	0.178091
			3	-0.018413	4	0.162908
			4	-0.004131	5	0.147870
			5	-0.004918	6	0.137758
			6	-0.004103	7	0.127596
			8	-0.002467	8	0.449675
				BIAS CORR		0.031069
				VAR COEFF		0.004224
				EFFICIENCY		100.00
						99.94
11	6	8	1	1.085327	2	0.404930
			2	-0.045686	3	0.234073
			3	-0.018411	4	0.147964
			4	-0.012220	5	0.138076
			6	-0.006020	7	0.127624
			8	-0.002489	8	0.493149
				BIAS CORR		0.031126
				VAR COEFF		0.004224
				EFFICIENCY		99.99
						99.94
11	6	9	1	1.085384	2	0.403785
			2	-0.045687	4	0.327479
			3	-0.024132	6	0.196066
			5	-0.012031	7	0.127751
			8	-0.003733	8	0.490954

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
11	3	4		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			1	0.031297		
				0.004225		0.224409
				99.96		99.68
			1	1.086255	3	0.435546
			2	-0.057330	5	0.302219
			4	-0.022190	7	0.160920
			7	-0.006735	8	0.452194
11	6	1		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			1	0.032022		
				0.004228		0.225102
				99.90		99.38
			1	1.087866	3	0.550299
			2	-0.066083	6	0.235934
			5	-0.021784	8	0.501349
				BIAS CORR		
11	9	1		VAR COEFF		
				EFFICIENCY		
				0.034190		0.226371
				0.004234		98.92
				99.75		
			1	1.062357	5	0.580437
			3	-0.062357	8	0.551498
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	12	1		0.038177		0.230248
				0.004252		97.16
				99.34		
			1	1.000000	8	0.772739
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.048669		0.252648
				0.004335		88.54
				97.42		
11	7	1	1	1.085379	1	0.273278
			2	-0.045664	2	0.230490
			3	-0.018436	3	0.206519
			4	-0.009118	4	0.184560
			5	-0.004932	5	0.171370
			6	-0.002961	6	0.157914
			7	-0.004263	7	0.695011
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	13	1		0.031688		0.255837
				0.004224		100.00
				100.00		63.53
				EFF (M/N)		
				99.97		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

	N	L	I	LOCATION	I	SCALE
11	7		1	1.085434	2	0.334051
			2	-0.045666	3	0.206766
			3	-0.019447	4	0.184760
			4	-0.009115	5	0.171482
			5	-0.006823	6	0.158066
			7	-0.005384	7	0.695592
				BIAS CORR		
				0.031739		
				VAR COEFF		0.256018
				0.004225		99.93
				EFFICIENCY		
				99.99		
11	7		1	1.085646	2	0.464733
			2	-0.045677	4	0.267443
			3	-0.024142	5	0.171620
			5	-0.010438	6	0.158453
			7	-0.005389	7	0.695230
				BIAS CORR		
				0.031814		
				VAR COEFF		0.256302
				0.004225		99.92
				EFFICIENCY		
				99.97		
11	7		1	1.086255	2	0.465849
			2	-0.057330	4	0.270383
			4	-0.022190	6	0.225793
			7	-0.006735	7	0.697568
				BIAS CORR		
				0.032022		
				VAR COEFF		0.256787
				0.004228		99.63
				EFFICIENCY		
				99.92		
11	7		1	1.087866	3	0.506474
			2	-0.066083	5	0.348010
			5	-0.021784	7	0.760369
				BIAS CORR		
				0.034190		
				VAR COEFF		0.257670
				0.004234		99.23
				EFFICIENCY		
				99.76		
11	7		1	1.062357	4	0.651118
			3	-0.062357	7	0.823282
				BIAS CORR		
				0.038177		
				VAR COEFF		0.263454
				0.004252		98.23
				EFFICIENCY		
				99.36		
11	7	1	1	1.000000	7	1.056403

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.048669		
			VAR COEFF	0.004335	0.276202	
			EFFICIENCY	97.44	92.63	
11	6		1	1.085734	1	0.319143
			2	-0.045703	2	0.272809
			3	-0.018432	3	0.239264
			4	-0.009141	4	0.219304
			5	-0.004936	5	0.207536
			6	-0.007522	6	1.052385
			BIAS CORR	0.032580		
			VAR COEFF	0.004226	0.298760	
			EFFICIENCY	100.00	100.00	
			EFF(M/N)	99.93	54.40	
			1	1.085838	2	0.393801
			2	-0.045717	3	0.239587
11	6	5	3	-0.018431	4	0.219567
			4	-0.012242	5	0.200691
			6	-0.009449	6	1.053302
			BIAS CORR	0.032637		
			VAR COEFF	0.004226	0.299006	
			EFFICIENCY	99.99	99.92	
			1	1.086355	2	0.545320
			2	-0.045755	4	0.315429
			3	-0.028618	5	0.200887
			6	-0.011981	6	1.054778
			BIAS CORR	0.032850		
			VAR COEFF	0.004228	0.299337	
			EFFICIENCY	99.94	99.79	
11	6	4	1	1.087866	2	0.546808
			2	-0.066083	4	0.442511
			5	-0.021784	6	1.135692
			BIAS CORR	0.034190		
			VAR COEFF	0.004234	0.300053	
			EFFICIENCY	99.80	99.57	
11	6	3	1	1.062357	3	0.741295
			3	-0.062357	6	1.216041

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	6	1	1	1.000000	6	1.449064
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	1	1	1.086371	1	0.387051
			2	-0.045728	2	0.327371
			3	-0.018472	3	0.292311
			4	-0.009152	4	0.264455
			5	-0.013018	5	1.598417
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
11	5	4	1	1.086585	2	0.474193
			2	-0.045740	3	0.292750
			3	-0.024191	4	0.264872
			5	-0.016654	5	1.600081
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	2	1	1.087866	2	0.659534
			2	-0.066083	4	0.382073
			5	-0.021784	5	1.602719
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	2	1	1.062357	3	0.710231
			3	-0.062357	5	1.714967
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	1	1	1.000000	5	2.027318

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
11	4			BIAS CORR	0.048669	
				VAR COEFF	0.004335	0.369436
				EFFICIENCY	97.53	97.17
			1	1.087586	1	0.487735
			2	-0.045819	2	0.415884
			3	-0.018513	3	0.369076
			4	-0.023254	4	2.495526
				BIAS CORR	0.035481	
				VAR COEFF	0.004232	0.449567
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.76	36.15
			1	1.088151	2	0.601065
			2	-0.057497	3	0.369731
			4	-0.030654	4	2.496916
				BIAS CORR	0.035601	
				VAR COEFF	0.004235	0.450143
				EFFICIENCY	99.95	99.87
11	4	2	1	1.062357	2	0.835508
			3	-0.062357	4	2.651718
				BIAS CORR	0.038177	
				VAR COEFF	0.004252	0.451051
				EFFICIENCY	99.56	99.67
		1	1	1.000000	4	2.950539
				BIAS CORR	0.048669	
				VAR COEFF	0.004335	0.456862
				EFFICIENCY	97.64	98.40
		3	1	1.090051	1	0.662144
			2	-0.045983	2	0.564372
			3	-0.044068	3	4.145854
				BIAS CORR	0.037919	
				VAR COEFF	0.004243	0.601141
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.53	27.04
11	3	2	1	1.062357	2	0.816168
			3	-0.062357	3	4.153711

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	3	1	1	1.000000	3	4.609766
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	2	2	1	1.095781	1	1.022582
			2	-0.095781	2	7.839180
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
11	2	1	1	1.000000	2	8.249759
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	1	1	1	1.000000	1	20.546761
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
12	12	12	1	1.085859	1	0.162229
			2	-0.045461	2	0.137856
			3	-0.018443	3	0.122211
			4	-0.009254	4	0.110908
			5	-0.004979	5	0.101812
			6	-0.003136	6	0.094299
			7	-0.001798	7	0.087741
			8	-0.001223	8	0.081768
			9	-0.000737	9	0.076092
			10	-0.000465	10	0.070380
			11	-0.000261	11	0.064742
			12	-0.000102	12	0.052781
				BIAS CORR		
				VAR COEFF		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		100.00
				EFF(M/N)		
12	12	11	1	1.085873	2	0.199986
			2	-0.045460	3	0.122304
			3	-0.018447	4	0.110895
			4	-0.009250	5	0.101819
			5	-0.004984	6	0.094381
			6	-0.003133	7	0.087739
			7	-0.001800	8	0.081816
			8	-0.001223	9	0.076112
			9	-0.001085	10	0.070405
			11	-0.000390	11	0.064064
			12	-0.000102	12	0.052799
				BIAS CORR		
				0.026157		
				VAR COEFF		0.148983
				0.003347		
				EFFICIENCY		99.97
				100.00		
12	12	10	1	1.085888	2	0.276137
			2	-0.045461	4	0.160540
			3	-0.018447	5	0.101773
			4	-0.009250	6	0.094640
			5	-0.004984	7	0.087574
			6	-0.003133	8	0.082016
			7	-0.001800	9	0.076080
			8	-0.001223	10	0.070462
			9	-0.001086	11	0.064094
			11	-0.000503	12	0.052825
				BIAS CORR		
				0.026321		
				VAR COEFF		0.149058
				0.003347		
				EFFICIENCY		99.92
				100.00		
12	12	9	1	1.085908	2	0.276497
			2	-0.045453	4	0.223510
			3	-0.018463	6	0.135628
			4	-0.009235	7	0.087456
			5	-0.004996	8	0.082309
			6	-0.003129	9	0.076074
			7	-0.002601	10	0.070574
			9	-0.001528	11	0.064136
			11	-0.000503	12	0.052858



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	12	6		BIAS CORR	0.026355	
				VAR COEFF	0.003347	0.149177
				EFFICIENCY	100.00	99.84
			1	1.085964	2	0.276944
			2	-0.045485	4	0.223954
			3	-0.018418	6	0.191264
			4	-0.009285	8	0.115799
			5	-0.004961	9	0.076065
			6	-0.004284	10	0.070723
			8	-0.002417	11	0.064225
			10	-0.001114	12	0.052948
12	12	7		BIAS CORR	0.026596	
				VAR COEFF	0.003347	0.149396
				EFFICIENCY	99.99	99.89
			1	1.086034	3	0.298377
			2	-0.045448	5	0.206531
			3	-0.019477	7	0.179292
			4	-0.009239	9	0.106345
			5	-0.006935	10	0.070564
			7	-0.004541	11	0.064424
			10	-0.001389	12	0.053066
12	12	8		BIAS CORR	0.026708	
				VAR COEFF	0.003347	0.149732
				EFFICIENCY	99.98	99.47
			1	1.086190	3	0.373784
			2	-0.045495	6	0.230769
			3	-0.018446	8	0.169124
			4	-0.012327	10	0.096484
			6	-0.007334	11	0.064658
			9	-0.002588	12	0.053235
				BIAS CORR	0.027063	
12	12			VAR COEFF	0.003348	0.150352
				EFFICIENCY	99.97	99.05
			1	1.086482	4	0.387173
			2	-0.045502	7	0.216035
			3	-0.024151	9	0.161158
12	12		5	-0.012287	11	0.084968

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			8	-0.004543	12	0.053728
			BIAS CORR	0.027565		
			VAR COEFF	0.003349		0.151523
			EFFICIENCY	99.94		98.29
12	12	4	1	1.087160	5	0.477125
			2	-0.057007	9	0.214278
			4	-0.022453	11	0.086277
			7	-0.007699	12	0.054542
			BIAS CORR	0.028262		
			VAR COEFF	0.003351		0.153737
			EFFICIENCY	99.88		96.84
12	12	3	1	1.088835	6	0.493834
			2	-0.065656	10	0.204097
			5	-0.023179	12	0.067641
			BIAS CORR	0.030275		
			VAR COEFF	0.003356		0.158449
			EFFICIENCY	99.72		93.99
12	12	2	1	1.063907	8	0.545518
			3	-0.063907	12	0.090477
			BIAS CORR	0.033919		
			VAR COEFF	0.003370		0.173876
			EFFICIENCY	99.30		85.66
12	12	1	1	1.000000	10	0.519209
			BIAS CORR	0.043338		
			VAR COEFF	0.003438		0.222318
			EFFICIENCY	97.35		66.99
12	11	11	1	1.085874	1	0.177125
			2	-0.045462	2	0.150441
			3	-0.018443	3	0.133456
			4	-0.009254	4	0.120868
			5	-0.004979	5	0.111286
			6	-0.003136	6	0.102870
			7	-0.001798	7	0.095932
			8	-0.001223	8	0.089344
			9	-0.000738	9	0.083277
			10	-0.000465	10	0.077186

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	I	I	LOCATION	I	SCALE
12	11	1	11	-0.000374	11	0.133798
			BIAS CORR	0.026275		
			VAR COEFF	0.003347		0.162481
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		91.66
12	11	1	1	1.085888	2	0.213257
			2	-0.045461	3	0.133560
			3	-0.018447	4	0.120967
			4	-0.009250	5	0.111298
			5	-0.004984	6	0.102962
			6	-0.003133	7	0.095934
			7	-0.001800	8	0.089399
			8	-0.001223	9	0.083301
			9	-0.001086	10	0.077217
			11	-0.000503	11	0.133847
			BIAS CORR	0.026321		
			VAR COEFF	0.003347		0.162541
			EFFICIENCY	100.00		99.75
12	11	9	1	1.085908	2	0.301431
			2	-0.045453	4	0.175189
			3	-0.018463	5	0.111253
			4	-0.009235	6	0.103250
			5	-0.004996	7	0.095758
			6	-0.003129	8	0.089622
			7	-0.002601	9	0.083270
			9	-0.001528	10	0.077292
			11	-0.000503	11	0.133918
			BIAS CORR	0.026355		
			VAR COEFF	0.003347		0.162630
			EFFICIENCY	100.00		99.91
12	11	8	1	1.085964	2	0.301848
			2	-0.045485	4	0.243824
			3	-0.018418	6	0.148067
			4	-0.009285	7	0.095636
			5	-0.004961	8	0.089949
			6	-0.004284	9	0.083173
			8	-0.002417	10	0.077410
			10	-0.001114	11	0.134027

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.026596		
				0.003347		0.162771
				99.99		99.82
12	11	7	1	1.086034	2	0.302378
			2	-0.045448	4	0.244453
			3	-0.018477	6	0.208936
			4	-0.009239	8	0.126589
			5	-0.006939	9	0.083272
			7	-0.004541	10	0.077584
			10	-0.001389	11	0.134240
				BIAS CORR		
				0.026708		
				VAR COEFF		0.163033
				0.003347		99.66
				99.98		
12	11	6	1	1.086190	3	0.325836
			2	-0.045495	5	0.225687
			3	-0.018446	7	0.195987
			4	-0.012327	9	0.116391
			6	-0.007334	10	0.077537
			9	-0.002588	11	0.134627
				BIAS CORR		
				0.027063		
				VAR COEFF		0.163433
				0.003348		99.42
				99.97		
12	11	5	1	1.086482	3	0.409415
			2	-0.045502	6	0.252228
			3	-0.024151	8	0.185079
			5	-0.012287	10	0.105853
			6	-0.004543	11	0.135226
				BIAS CORR		
				0.027565		
				VAR COEFF		0.164178
				0.003349		98.97
				99.94		
12	11	4	1	1.087160	4	0.423362
			2	-0.057007	7	0.236433
			4	-0.022453	9	0.176742
			7	-0.007699	11	0.158155
				BIAS CORR		
				0.028262		
				VAR COEFF		0.165585
				0.003351		98.13
				99.88		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	11	7	1	1.088835	5	0.522664
			2	-0.065656	9	0.235221
			5	-0.025174	11	0.167804
				BIAS CORR		
				0.035275		
12	11	7		VAR COEFF		0.168294
				0.003356		96.54
				EFFICIENCY		99.72
			1	1.063907	7	0.552034
			3	-0.063907	11	0.263759
12	11	7		BIAS CORR		
				0.033919		
				VAR COEFF		0.175554
				0.003370		91.97
				EFFICIENCY		99.30
12	11	1	1	1.000000	10	0.517200
				BIAS CORR		
				0.043330		
				VAR COEFF		0.227310
				0.003430		75.09
12	11	1		EFFICIENCY		97.36
			1	1.095911	1	0.195455
			2	-0.045464	2	0.165914
			3	-0.018443	3	0.146457
			4	-0.009257	4	0.134011
12	13	10	5	-0.004977	5	0.121687
			6	-0.003139	6	0.114160
			7	-0.001798	7	0.105402
			8	-0.001224	8	0.098325
			9	-0.000739	9	0.092070
			10	-0.000869	10	0.243636
				BIAS CORR		
				0.026524		
				VAR COEFF		0.175776
				0.003347		100.00
12	13	4		EFFICIENCY		100.00
				EFF(M/N)		100.00
			1	1.095924	2	0.240569
			2	-0.045470	3	0.146559
			3	-0.018433	4	0.134120
12	13	4	4	-0.009158	5	0.121703
			5	-0.004565	6	0.114267
			6	-0.003144	7	0.105407
			7	-0.001797	8	0.098093

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	10	6	8	-0.001733	9	0.092120
			10	-0.001113	10	0.243737
			BIAS CORR	0.026565		
			VAR COEFF	0.003347		0.178849
			EFFICIENCY	100.00		99.96
			1	1.085964	2	0.331856
			2	-0.045485	4	0.193636
			3	-0.018418	5	0.121660
			4	-0.009285	6	0.114590
			5	-0.004961	7	0.105270
12	10	7	6	-0.004284	8	0.092242
			8	-0.002417	9	0.092091
			10	-0.001114	10	0.243906
			BIAS CORR	0.026596		
			VAR COEFF	0.003347		0.178953
			EFFICIENCY	100.00		99.90
			1	1.086034	2	0.332339
			2	-0.045448	4	0.268713
			3	-0.018477	6	0.163612
			4	-0.009239	7	0.105095
12	10	8	5	-0.006939	8	0.099509
			7	-0.004541	9	0.092015
			10	-0.001389	10	0.244194
			BIAS CORR	0.026708		
			VAR COEFF	0.003347		0.179125
			EFFICIENCY	99.99		99.91
			1	1.086190	2	0.332974
			2	-0.045495	4	0.269447
			3	-0.018446	6	0.230539
			4	-0.012327	8	0.139796
12	10	9	6	-0.007334	9	0.092117
			9	-0.002588	10	0.244676
			BIAS CORR	0.027063		
			VAR COEFF	0.003348		0.179441
			EFFICIENCY	99.97		99.83
			1	1.086482	3	0.359201
			2	-0.045502	5	0.248744

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
17	10	4	3	-0.024151	7	0.216362
			5	-0.012287	9	0.128804
			8	-0.004543	10	0.245165
			BIAS CORR		0.027565	
			VAR COEFF		0.003349	
			EFFICIENCY		99.95	
					0.179942	
17	10	4	1	1.087160	3	0.450142
			2	-0.057007	6	0.278531
			4	-0.022453	8	0.204655
			7	-0.007699	10	0.277329
			BIAS CORR		0.028262	
			VAR COEFF		0.003351	
			EFFICIENCY		99.88	
17	10	4			0.180841	
					98.86	
17	10	4	1	1.088835	5	0.475647
			2	-0.065656	8	0.243863
			5	-0.023179	10	0.280270
			BIAS CORR		0.030275	
			VAR COEFF		0.003356	
			EFFICIENCY		99.72	
					0.182715	
17	10	4			97.34	
			1	1.063907	6	0.588354
			3	-0.063907	10	0.339638
			BIAS CORR		0.033919	
			VAR COEFF		0.003370	
			EFFICIENCY		99.30	
					0.188218	
17	10	4			94.98	
			1	1.000000	10	0.519208
			BIAS CORR		0.043338	
			VAR COEFF		0.003438	
			EFFICIENCY		97.36	
					0.222318	
					80.41	
17	9	9	1	1.085983	1	0.217328
			2	-0.045465	2	0.183528
			3	-0.018453	3	0.165365
			4	-0.009249	4	0.146080
			5	-0.004989	5	0.138607
			6	-0.003134	6	0.125290
			7	-0.001807	7	0.118545
			8	-0.001226	8	0.110203

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			9	-0.001667	9	0.391524
			BIAS CORR	0.026887		
			VAR COEFF	0.003347		0.198720
			EFFICIENCY	100.00		100.00
			EFF (M/N)	99.99		74.95
12	9		1	1.086003	2	0.266760
			2	-0.045456	3	0.165508
			3	-0.018469	4	0.146214
			4	-0.009233	5	0.138634
			5	-0.005000	6	0.125414
			6	-0.003129	7	0.118558
			7	-0.002605	8	0.110281
			9	-0.002110	9	0.391696
			BIAS CORR	0.026923		
			VAR COEFF	0.003347		0.198810
			EFFICIENCY	100.00		99.95
12	9		1	1.086050	2	0.369879
			2	-0.045444	4	0.213433
			3	-0.018489	5	0.138598
			4	-0.009222	6	0.125787
			5	-0.006949	7	0.118356
			7	-0.003835	8	0.110372
			9	-0.002112	9	0.391898
			BIAS CORR	0.026958		
			VAR COEFF	0.003347		0.198946
			EFFICIENCY	99.99		99.89
12	9		1	1.086190	2	0.370480
			2	-0.045495	4	0.299004
			3	-0.018446	6	0.181659
			4	-0.012327	7	0.118231
			6	-0.007334	8	0.111025
			9	-0.002588	9	0.392215
			BIAS CORR	0.027063		
			VAR COEFF	0.003348		0.199167
			EFFICIENCY	99.98		99.78
12	9		1	1.086482	3	0.398634
			2	-0.045502	5	0.276815



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.024151	7	0.169011
			5	-0.012287	8	0.110088
			8	-0.004543	9	0.393463
			BIAS CORR	0.027565		
			VAR COEFF	0.003349		0.199553
			EFFICIENCY	99.95		99.58
12	9	4	1	1.087160	3	0.400011
			2	-0.057007	5	0.277871
			4	-0.022453	7	0.241649
			7	-0.007699	9	0.434567
			BIAS CORR	0.028262		
			VAR COEFF	0.003351		0.200151
			EFFICIENCY	99.89		99.29
12	9	5	1	1.088835	4	0.516391
			2	-0.065656	7	0.289493
			5	-0.023179	9	0.437454
			BIAS CORR	0.030275		
			VAR COEFF	0.003356		0.201450
			EFFICIENCY	99.73		98.65
12	9	6	1	1.063907	5	0.641091
			3	-0.063907	9	0.514654
			BIAS CORR	0.033919		
			VAR COEFF	0.003370		0.205514
			EFFICIENCY	99.31		96.69
12	9	1	1	1.000000	9	0.707836
			BIAS CORR	0.043338		
			VAR COEFF	0.003438		0.228316
			EFFICIENCY	97.37		87.04
12	8	4	1	1.086116	1	0.243959
			2	-0.045484	2	0.210194
			3	-0.018435	3	0.180951
			4	-0.009277	4	0.171545
			5	-0.004971	5	0.151330
			6	-0.003147	6	0.144469
			7	-0.001802	7	0.133277
			8	-0.003000	8	0.593037

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	8	7		BIAS CORR		0.027367
				VAR COEFF		0.003347
				EFFICIENCY		100.00
				EFF(M/N)		99.98
			1	1.086151	2	0.303642
			2	-0.045499	3	0.181119
			3	-0.018418	4	0.171708
			4	-0.009294	5	0.151366
	8	6	5	-0.004963	6	0.144618
			6	-0.004291	7	0.133299
			7	-0.003886	8	0.593363
				BIAS CORR		0.027399
				VAR COEFF		0.003347
				EFFICIENCY		100.00
						99.95
	8	5	1	1.086248	2	0.416514
			2	-0.045517	4	0.245235
			3	-0.018411	5	0.151334
			4	-0.012351	6	0.145037
			5	-0.006280	7	0.133087
			6	-0.003690	8	0.593954
				BIAS CORR		0.027439
				VAR COEFF		0.003348
				EFFICIENCY		99.99
						99.88
12	8	4	1	1.086482	2	0.417211
			2	-0.045502	4	0.338754
			3	-0.024151	6	0.206064
			4	-0.012287	7	0.132963
			5	-0.004543	8	0.594854
				BIAS CORR		0.027565
				VAR COEFF		0.003349
				EFFICIENCY		99.96
						99.76
	8	3	1	1.087160	2	0.417756
			2	-0.057007	4	0.339842
			4	-0.022453	6	0.290851
			7	-0.007699	8	0.646962
				BIAS CORR		0.028262
				VAR COEFF		0.003351
						0.224728

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.90
						99.53
12	3	3	1	1.088835	3	0.563815
			2	-0.065656	6	0.250149
			5	-0.023179	8	0.649740
				BIAS CORR		0.030275
				VAR COEFF		0.003356
				EFFICIENCY		99.74
						99.11
12	8	2	1	1.063907	5	0.598613
			3	-0.063907	8	0.705126
				BIAS CORR		0.033919
				VAR COEFF		0.003370
				EFFICIENCY		99.32
						97.83
12	4	1	1	1.000000	8	0.946270
				BIAS CORR		0.043338
				VAR COEFF		0.003438
				EFFICIENCY		97.38
						91.35
12	7	7	1	1.086336	1	0.282032
			2	-0.045471	2	0.235394
			3	-0.018481	3	0.216462
			4	-0.009244	4	0.188457
			5	-0.005001	5	0.179447
			6	-0.003143	6	0.164139
			7	-0.004975	7	0.874153
				BIAS CORR		0.028009
				VAR COEFF		0.003348
				EFFICIENCY		100.00
				EFF(M/N)		99.95
						58.22
12	7	-	1	1.086384	2	0.343452
			2	-0.045459	3	0.216679
			3	-0.018502	4	0.188656
			4	-0.009233	5	0.179507
			5	-0.006958	6	0.164323
			7	-0.006232	7	0.874658
				BIAS CORR		0.028046
				VAR COEFF		0.003348
				EFFICIENCY		99.99
						99.94

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	7	5	1	1.086581	2	0.478558
			2	-0.045466	4	0.276717
			3	-0.024181	5	0.179502
			5	-0.010694	6	0.164848
			7	-0.006240	7	0.875288
			BIAS CORR	0.028102		
			VAR COEFF	0.003349		0.256207
			EFFICIENCY	99.98		99.85
12	7	4	1	1.087160	2	0.479497
			2	-0.057007	4	0.387671
			4	-0.022453	6	0.237291
			7	-0.007699	7	0.876475
			BIAS CORR	0.028262		
			VAR COEFF	0.003351		0.256576
			EFFICIENCY	99.92		99.71
12	7	3	1	1.088835	3	0.517689
			2	-0.065656	5	0.359772
			5	-0.023179	7	0.944135
			BIAS CORR	0.030275		
			VAR COEFF	0.003356		0.257224
			EFFICIENCY	99.76		99.45
12	7	2	1	1.063907	4	0.670005
			3	-0.063907	7	1.012153
			BIAS CORR	0.033919		
			VAR COEFF	0.003370		0.259396
			EFFICIENCY	99.34		98.62
12	7	1	1	1.000000	7	1.262042
			BIAS CORR	0.043338		
			VAR COEFF	0.003438		0.271350
			EFFICIENCY	97.40		94.28
12	6	5	1	1.086735	1	0.327382
			2	-0.045528	2	0.283225
			3	-0.018450	3	0.245093
			4	-0.009289	4	0.228558
			5	-0.004994	5	0.207773

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	6		6	-0.008474	6	1.280420
			BIAS CORR	0.028840		0.298747
			VAR COEFF	0.003349		100.00
			EFFICIENCY	100.00		49.85
			EFF(M/N)	99.92		
			1	1.086833	2	0.408701
			2	-0.045547	3	0.245363
			3	-0.018443	4	0.228815
			4	-0.012365	5	0.207861
			6	-0.010478	6	1.281369
12	6	4	BIAS CORR	0.028883		0.298951
			VAR COEFF	0.003350		99.93
			EFFICIENCY	99.99		
			1	1.087318	2	0.561761
			2	-0.045584	4	0.328575
			3	-0.028572	5	0.207879
			6	-0.013162	6	1.282874
			BIAS CORR	0.029044		0.299251
			VAR COEFF	0.003351		99.83
			EFFICIENCY	99.95		
12	6	2	1	1.088835	2	0.562979
			2	-0.065656	4	0.457179
			5	-0.023179	6	1.368544
			BIAS CORR	0.030275		0.299746
			VAR COEFF	0.003356		99.67
			EFFICIENCY	99.80		
			1	1.063907	3	0.760427
			3	-0.063907	6	1.454297
			BIAS CORR	0.033919		0.301458
			VAR COEFF	0.003370		99.10
12	6	1	EFFICIENCY	99.38		
			1	1.000000	6	1.701159
			BIAS CORR	0.043338		0.310206
			VAR COEFF	0.003438		96.31
			EFFICIENCY	97.43		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	5	5	1	1.087417	1	0.399023
			2	-0.045537	2	0.336546
			3	-0.018509	3	0.302997
			4	-0.009289	4	0.273519
			5	-0.014081	5	1.897925
			BIAS CORR	0.029970		
			VAR COEFF	0.003352		0.358970
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.85		41.49
12	5	4	1	1.087616	2	0.489553
			2	-0.045545	3	0.303379
			3	-0.024223	4	0.273874
			5	-0.017849	5	1.899560
			BIAS CORR	0.030029		
			VAR COEFF	0.003352		0.359273
			EFFICIENCY	99.98		99.92
12	5	3	1	1.088835	2	0.678973
			2	-0.065656	4	0.397322
			5	-0.023179	5	1.902038
			BIAS CORR	0.030275		
			VAR COEFF	0.003356		0.359731
			EFFICIENCY	99.86		99.79
12	5	2	1	1.063907	3	0.734663
			3	-0.063907	5	2.019857
			BIAS CORR	0.033919		
			VAR COEFF	0.003370		0.360863
			EFFICIENCY	99.44		99.48
12	5	1	1	1.000000	5	2.349010
			BIAS CORR	0.043338		
			VAR COEFF	0.003438		0.367347
			EFFICIENCY	97.50		97.72
12	4	4	1	1.088698	1	0.501772
			2	-0.045638	2	0.429346
			3	-0.018542	3	0.381225
			4	-0.024518	4	2.908264
			BIAS CORR	0.031503		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY EFF(M/N)		0.449559 100.00 33.13
12	4	3	1	1.089237	2	0.621896
			2	-0.057186	3	0.381790
			4	-0.032052	4	2.911564
				BIAS CORR VAR COEFF EFFICIENCY		0.450038 99.89
12	4	2	1	1.063907	2	0.860572
			3	-0.063907	4	3.071373
				BIAS CORR VAR COEFF EFFICIENCY		0.450764 99.73
12	4	1	1	1.000000	4	3.383796
				BIAS CORR VAR COEFF EFFICIENCY		0.455499 98.70
12	3	3	1	1.091249	1	0.681868
			2	-0.045799	2	0.582113
			3	-0.045450	3	4.760500
				BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)		0.601135 100.00 24.78
12	3	2	1	1.063907	2	0.844115
			3	-0.063907	3	4.768024
				BIAS CORR VAR COEFF EFFICIENCY		0.602020 99.85
12	3	1	1	1.000000	3	5.242951
				BIAS CORR VAR COEFF EFFICIENCY		0.605058 99.35

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	1.097104	1	1.053088
			2	-0.097104	2	8.893301
				BIAS CORR		
				0.037126		
				VAR COEFF		0.906097
				0.003382		
12	2	1		EFFICIENCY		100.00
				100.00		
				EFF(M/N)		16.44
				98.35		
12	2	1	1	1.000000	2	9.318593
				BIAS CORR		
				0.043338		
				VAR COEFF		0.908210
				0.003438		
				EFFICIENCY		99.77
12	1	1	1	1.000000	1	23.074277
				BIAS CORR		
				0.043338		
				VAR COEFF		1.830233
				0.003438		
				EFFICIENCY		100.00
12	13	13		EFF(M/N)		8.14
				97.35		
12	13	13	1	1.086570	1	0.153512
			2	-0.045296	2	0.130630
			3	-0.018444	3	0.116007
			4	-0.009394	4	0.105387
			5	-0.004965	5	0.097043
			6	-0.003365	6	0.090129
			7	-0.001760	7	0.084142
			8	-0.001396	8	0.078774
			9	-0.000777	9	0.073778
			10	-0.000559	10	0.068945
			11	-0.000338	11	0.064007
			12	-0.000198	12	0.058450
			13	-0.000079	13	0.048386
				BIAS CORR		
				0.022988		
				VAR COEFF		0.137428
				0.002702		
12	13	12		EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
12	13	12	1	1.086581	2	0.189946
			2	-0.045298	3	0.116073
			3	-0.018439	4	0.105478
			4	-0.009402	5	0.097007
			5	-0.004956	6	0.090252



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	I	I	LOCATION		I	SCALE	
			6	-0.003373		7	0.084080	
			7	-0.001755		8	0.078856	
			8	-0.001399		9	0.073770	
			9	-0.000776		10	0.068974	
			10	-0.000811		11	0.064022	
			12	-0.000292		12	0.058466	
			13	-0.000079		13	0.048399	
			BIAS CORR	0.023027				
			VAR COEFF	0.002702			0.137454	
			EFFICIENCY	100.00			99.97	
13	13	11	1	1.086592		2	0.261430	
			2	-0.045299		4	0.153243	
			3	-0.018439		5	0.096828	
			4	-0.009402		6	0.090726	
			5	-0.004956		7	0.083567	
			6	-0.003374		8	0.079330	
			7	-0.001755		9	0.073499	
			8	-0.001399		10	0.069123	
			9	-0.000776		11	0.064016	
			10	-0.000812		12	0.058492	
			12	-0.000379		13	0.048417	
			BIAS CORR	0.023150				
			VAR COEFF	0.002702			0.137516	
			EFFICIENCY	100.00			99.94	
13	13	10	1	1.086609		2	0.261728	
			2	-0.045314		4	0.211973	
			3	-0.018412		6	0.130628	
			4	-0.009436		7	0.083108	
			5	-0.004927		8	0.080120	
			6	-0.003391		9	0.072961	
			7	-0.001748		10	0.069478	
			8	-0.001906		11	0.063954	
			10	-0.001094		12	0.058542	
			12	-0.000380		13	0.048444	
			BIAS CORR	0.023169				
			VAR COEFF	0.002702			0.137574	
			EFFICIENCY	100.00			99.89	
13	13	9	1	1.086644		2	0.261974	

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = C.75

N	M	L	I	LOCATION	I	SCALE
			2	-0.045344	4	0.212559
			3	-0.018373	6	0.181930
			4	-0.009473	8	0.113230
			5	-0.004907	9	0.072774
			6	-0.004475	10	0.069765
			8	-0.002597	11	0.063924
			10	-0.001095	12	0.058620
			12	-0.000380	13	0.048489
			BIAS CORR	0.023189		
			VAR COEFF	0.002702		0.137724
			EFFICIENCY	99.99		99.78
12	13	6	1	1.086698	3	0.283401
			2	-0.045344	5	0.196228
			3	-0.018384	7	0.170726
			4	-0.009454	9	0.104967
			5	-0.004935	10	0.068507
			6	-0.004462	11	0.064504
			8	-0.003100	12	0.058622
			11	-0.001018	13	0.048567
			BIAS CORR	0.023431		
			VAR COEFF	0.002702		0.137928
			EFFICIENCY	99.99		99.64
12	13	7	1	1.086790	3	0.351983
			2	-0.045371	6	0.220681
			3	-0.018367	8	0.160904
			4	-0.012449	10	0.096570
			6	-0.006476	11	0.064263
			8	-0.003110	12	0.058868
			11	-0.001016	13	0.048689
			BIAS CORR	0.023462		
			VAR COEFF	0.002703		0.138287
			EFFICIENCY	99.98		99.38
12	13	8	1	1.086941	4	0.364755
			2	-0.045324	7	0.206477
			3	-0.018475	9	0.152666
			4	-0.012391	11	0.087898
			6	-0.007582	12	0.059090
			9	-0.003168	13	0.048911

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = C.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.024074		
				0.002703		0.138887
				99.97		98.95
12	13	3	1	1.087255	5	0.376006
			2	-0.045363	8	0.194471
			3	-0.024151	10	0.146283
			5	-0.012470	12	0.077716
			3	-0.005271	13	0.049347
				BIAS CORR		
				0.024557		
				VAR COEFF		0.140080
				0.002704		98.11
				EFFICIENCY		
				99.94		
12	13	4	1	1.087947	6	0.455212
			2	-0.056731	10	0.194763
			4	-0.024794	12	0.078925
			8	-0.006423	13	0.050123
				BIAS CORR		
				0.024743		
				VAR COEFF		0.142262
				0.002706		96.60
				EFFICIENCY		
				99.87		
12	13	5	1	1.089660	7	0.469389
			2	-0.065291	11	0.186248
			5	-0.024369	13	0.062183
				BIAS CORR		
				0.027086		
				VAR COEFF		0.146635
				0.002710		93.72
				EFFICIENCY		
				99.71		
12	13	7	1	1.065222	9	0.514594
			3	-0.065222	13	0.083344
				BIAS CORR		
				0.030428		
				VAR COEFF		0.161203
				0.002722		85.25
				EFFICIENCY		
				99.28		
12	13	1	1	1.000000	11	0.488655
				BIAS CORR		
				0.038951		
				VAR COEFF		0.206219
				0.002777		66.64
				EFFICIENCY		
				97.31		
12	12	12	1	1.086581	1	0.166351
			2	-0.045296	2	0.141604

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.018444	3	0.125640
			4	-0.009394	4	0.114398
			5	-0.004965	5	0.104958
			6	-0.003366	6	0.097971
			7	-0.001759	7	0.091040
			8	-0.001397	8	0.085576
			9	-0.000777	9	0.080022
			10	-0.000559	10	0.074924
			11	-0.000339	11	0.069688
			12	-0.000285	12	0.121369
			BIAS CORR	0.023115		
			VAR COEFF	0.002702		0.148884
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		92.31
12	12	11	1	1.086592	2	0.205886
			2	-0.045299	3	0.125714
			3	-0.018439	4	0.114500
			4	-0.009402	5	0.104920
			5	-0.004956	6	0.098107
			6	-0.003374	7	0.090975
			7	-0.001755	8	0.085666
			8	-0.001399	9	0.080015
			9	-0.000776	10	0.074956
			10	-0.000812	11	0.069707
			12	-0.000379	12	0.121404
			BIAS CORR	0.023150		
			VAR COEFF	0.002702		0.148926
			EFFICIENCY	100.00		99.97
12	12	10	1	1.086609	2	0.263316
			2	-0.045314	4	0.166237
			3	-0.018412	5	0.104730
			4	-0.009436	6	0.098623
			5	-0.004927	7	0.090422
			6	-0.003391	8	0.086237
			7	-0.001748	9	0.079724
			8	-0.001906	10	0.075120
			10	-0.001094	11	0.069702
			12	-0.000380	12	0.121458
			BIAS CORR	0.023169		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		
				EFFICIENCY		
				0.002702		0.148987
				100.00		99.93
12	12	9	1	1.086644	2	0.283652
			2	-0.045344	4	0.229771
			3	-0.018373	6	0.141788
			4	-0.009473	7	0.089929
			5	-0.004907	8	0.087041
			6	-0.004475	9	0.079146
			8	-0.002597	10	0.075578
			10	-0.001095	11	0.069639
			12	-0.000380	12	0.121550
				BIAS CORR		
				0.023189		
				VAR COEFF		0.149078
				EFFICIENCY		99.87
				100.00		
12	12	8	1	1.086698	2	0.283940
			2	-0.045344	4	0.230423
			3	-0.018384	6	0.197316
			4	-0.009454	8	0.122879
			5	-0.004935	9	0.078949
			6	-0.004462	10	0.075824
			8	-0.003100	11	0.069612
			11	-0.001018	12	0.121693
				BIAS CORR		
				0.023431		
				VAR COEFF		0.149231
				EFFICIENCY		99.77
				99.99		
12	12	7	1	1.086790	3	0.307280
			2	-0.045371	5	0.212772
			3	-0.018367	7	0.185182
			4	-0.012449	9	0.113939
			6	-0.006476	10	0.074471
			8	-0.003110	11	0.070251
			11	-0.001016	12	0.121811
				BIAS CORR		
				0.023462		
				VAR COEFF		0.149473
				EFFICIENCY		99.61
				99.98		
12	12	6	1	1.086941	3	0.381639
			2	-0.045324	6	0.239417

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.018475	8	0.174660
			4	-0.012391	10	0.104941
			6	-0.007582	11	0.070005
			9	-0.003168	12	0.122250
			BIAS CORR	0.024074		
			VAR COEFF	0.002703		0.145893
			EFFICIENCY	99.97		99.33
11	12	3	1	1.087255	4	0.395782
			2	-0.045363	7	0.224070
			3	-0.024151	9	0.165891
			5	-0.012470	11	0.095730
			8	-0.005271	12	0.122794
			BIAS CORR	0.024557		
			VAR COEFF	0.002704		0.150604
			EFFICIENCY	99.94		98.86
12	12	4	1	1.087947	5	0.408236
			2	-0.056731	8	0.211355
			4	-0.024794	10	0.159282
			8	-0.006423	12	0.143736
			BIAS CORR	0.024743		
			VAR COEFF	0.002706		0.152015
			EFFICIENCY	99.87		97.94
12	12	5	1	1.089660	6	0.495126
			2	-0.065291	10	0.212260
			5	-0.024369	12	0.146180
			BIAS CORR	0.027086		
			VAR COEFF	0.002710		0.154592
			EFFICIENCY	99.71		96.31
13	12	2	1	1.065222	8	0.519942
			3	-0.065222	12	0.185305
			BIAS CORR	0.030428		
			VAR COEFF	0.002722		0.162750
			EFFICIENCY	99.28		91.48
12	12	1	1	1.000000	11	0.488655
			BIAS CORR	0.038951		
			VAR COEFF	0.002777		0.206219

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				97.31		72.20
				EFFICIENCY		
11	11	11	1	1.086608	1	0.181723
			2	-0.045297	2	0.154223
			3	-0.018447	3	0.138150
			4	-0.009391	4	0.123291
			5	-0.004970	5	0.116744
			6	-0.003362	6	0.105092
			7	-0.001763	7	0.100873
			8	-0.001396	8	0.092913
			9	-0.000778	9	0.087860
			10	-0.000560	10	0.082107
			11	-0.000646	11	0.218438
				BIAS CORR		
				0.023310		
				VAR COEFF		0.162453
				0.002702		
				EFFICIENCY		100.00
				100.00		84.60
				EFF(M/N)		
11	11	10	1	1.086618	2	0.224452
			2	-0.045290	3	0.139235
			3	-0.018462	4	0.123405
			4	-0.009370	5	0.116707
			5	-0.004991	6	0.105243
			6	-0.003348	7	0.100805
			7	-0.001771	8	0.093014
			8	-0.001393	9	0.087855
			9	-0.001162	10	0.082145
			11	-0.000832	11	0.218504
				BIAS CORR		
				0.023338		
				VAR COEFF		0.162503
				0.002702		99.97
				EFFICIENCY		
				100.00		
13	11	9	1	1.086631	2	0.309607
			2	-0.045263	4	0.180302
			3	-0.018509	5	0.116503
			4	-0.009321	6	0.105814
			5	-0.005027	7	0.100202
			6	-0.003331	8	0.093645
			7	-0.002653	9	0.087539
			9	-0.001695	10	0.082329
			11	-0.000832	11	0.218573

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
13	11	8		BIAS CORR		
				VAR COEFF		0.162576
				EFFICIENCY		99.92
			1	1.086698	2	0.310002
			2	-0.045344	4	0.250995
			3	-0.018384	6	0.153842
			4	-0.009454	7	0.099662
			5	-0.004935	8	0.094545
			6	-0.004462	9	0.086902
			8	-0.003100	10	0.082766
			11	-0.001018	11	0.218627
				BIAS CORR		
				VAR COEFF		0.162689
				EFFICIENCY		99.85
13	11	7	1	1.086790	2	0.310357
			2	-0.045371	4	0.251747
			3	-0.018367	6	0.215404
			4	-0.012449	8	0.134277
			6	-0.006476	9	0.086695
			8	-0.003110	10	0.083127
			11	-0.001016	11	0.218798
				BIAS CORR		
				VAR COEFF		0.162877
				EFFICIENCY		99.74
13	11	6	1	1.086941	3	0.335399
			2	-0.045324	5	0.232726
			3	-0.018475	7	0.202637
			4	-0.012391	9	0.124721
			6	-0.007582	10	0.081650
			9	-0.003168	11	0.219633
				BIAS CORR		
				VAR COEFF		0.163145
				EFFICIENCY		99.58
13	11	5	1	1.087255	3	0.417507
			2	-0.045363	6	0.261432
			3	-0.024151	8	0.191217
			5	-0.012470	10	0.115149



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			8	-0.005271	11	0.219968
			BIAS CORR	0.024557		
			VAR COEFF	0.002704		0.163669
			EFFICIENCY	99.94		99.26
12	11	4	1	1.087947	4	0.432280
			2	-0.056731	7	0.245530
			4	-0.024794	9	0.181823
			8	-0.006423	11	0.248915
			BIAS CORR	0.024743		
12	11	5				0.164508
			VAR COEFF	0.002706		98.5
			EFFICIENCY	99.88		
12	11	5	1	1.089660	5	0.530891
			2	-0.065291	9	0.246894
			5	-0.024369	11	0.251792
			BIAS CORR	0.027086		
			VAR COEFF	0.002710		0.165430
12	11	6				97.61
			EFFICIENCY	99.71		
12	11	6	1	1.065222	7	0.551392
			3	-0.065222	11	0.305794
			BIAS CORR	0.030428		
			VAR COEFF	0.002722		0.171785
			EFFICIENCY	99.28		94.57
12	11	1				
			1	1.000000	11	0.488655
			BIAS CORR	0.038951		
			VAR COEFF	0.002777		0.206219
			EFFICIENCY	97.31		78.78
12	10	10	1	1.086662	1	0.199579
			2	-0.045305	2	0.171850
			3	-0.018436	3	0.147770
			4	-0.009411	4	0.142782
			5	-0.004950	5	0.120967
			6	-0.003380	6	0.122120
			7	-0.001754	7	0.107693
			8	-0.001401	8	0.104112
			9	-0.000778	9	0.096738
			10	-0.001247	10	0.346277

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	J	SCALE		
				BIAS CORR	0.023582			
				VAR COEFF	0.002702	0.178756		
				EFFICIENCY	100.00	100.00		
				EFF(M/N)	99.99	76.88		
13	10	9	1	1.086679	2	0.248987		
			2	-0.045320	3	0.147867		
			3	-0.018409	4	0.142915		
			4	-0.009444	5	0.120928		
			5	-0.004921	6	0.122791		
			6	-0.003397	7	0.107620		
			7	-0.001747	8	0.104227		
			8	-0.001909	9	0.096735		
			10	-0.001530	10	0.346406		
						BIAS CORR	0.023604	
			VAR COEFF	0.002702	0.178816			
			EFFICIENCY	100.00	99.97			
13	10	8	1	1.086714	2	0.340086		
			2	-0.045350	4	0.203783		
			3	-0.018370	5	0.120711		
			4	-0.009482	6	0.122908		
			5	-0.004901	7	0.106978		
			6	-0.004481	8	0.104906		
			8	-0.002599	9	0.096400		
			10	-0.001531	10	0.346691		
						BIAS CORR	0.023624	
						VAR COEFF	0.002702	0.178900
			EFFICIENCY	100.00	99.92			
13	10	7	1	1.086804	2	0.340503		
			2	-0.045376	4	0.277037		
			3	-0.018353	6	0.172675		
			4	-0.012456	7	0.106420		
			6	-0.006481	8	0.105841		
			8	-0.002606	9	0.095743		
			10	-0.001532	10	0.347213		
						BIAS CORR	0.023652	
						VAR COEFF	0.002703	0.179021
						EFFICIENCY	99.99	99.85

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
13	10	6	1	1.086941	2	0.340908
			2	-0.045324	4	0.277861
			3	-0.018475	6	0.238431
			4	-0.012391	8	0.148279
			6	-0.007582	9	0.095529
			9	-0.003160	10	0.347818
			BIAS CORR		0.024074	
			VAR COEFF		0.002703	
			EFFICIENCY		99.97	
					0.179236	
13	10	5	1	1.087255	3	0.370490
			2	-0.045361	5	0.255630
			3	-0.024151	7	0.223520
			5	-0.012470	9	0.133153
			8	-0.005271	10	0.347381
			BIAS CORR		0.024557	
			VAR COEFF		0.002704	
			EFFICIENCY		99.94	
					0.179639	
					99.51	
13	10	4	1	1.087947	3	0.454638
			2	-0.055731	6	0.289834
			4	-0.024794	8	0.211146
			8	-0.006423	10	0.384700
			BIAS CORR		0.024742	
			VAR COEFF		0.002706	
			EFFICIENCY		99.88	
					0.180213	
					99.19	
13	10	3	1	1.089660	4	0.574492
			2	-0.065291	8	0.290644
			5	-0.024369	10	0.387904
			BIAS CORR		0.027086	
			VAR COEFF		0.002710	
			EFFICIENCY		99.72	
					0.181724	
					98.37	
13	10	2	1	1.065222	6	0.596389
			3	-0.065222	10	0.456422
			BIAS CORR		0.030428	
			VAR COEFF		0.002722	
			EFFICIENCY		99.28	
					0.185432	
					96.40	
12	10	1	1	1.000000	10	0.655914

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	9	9		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.038951		
				0.002777		0.208844
				97.32		85.59
			1	1.086748	1	0.224028
			2	-0.045290	2	0.185326
			3	-0.018478	3	0.176733
			4	-0.009358	4	0.142315
			5	-0.005004	5	0.150910
			6	-0.003346	6	0.125330
			7	-0.001772	7	0.125298
			8	-0.001398	8	0.114690
			9	-0.002102	9	0.515919
12	9	9		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.023945		
				0.002703		0.198703
				100.00		100.00
				99.98		69.16
			1	1.086761	2	0.271922
			2	-0.045263	3	0.176854
			3	-0.018525	4	0.142464
			4	-0.009309	5	0.150879
			5	-0.005040	6	0.125523
			6	-0.003330	7	0.125224
			7	-0.002657	8	0.114824
			9	-0.002637	9	0.516092
13	9	9		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.023970		
				0.002703		0.198780
				100.00		99.96
			1	1.086799	2	0.272034
			2	-0.045233	3	0.263498
			3	-0.018566	5	0.209816
			4	-0.009282	6	0.125056
			5	-0.007076	7	0.126203
			7	-0.004000	8	0.113942
			9	-0.002641	9	0.516831
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.023997		
				0.002703		0.198895
				99.99		99.90

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
11	9	2	1	1.086941	2	0.271340
			2	-0.045324	3	0.264645
			3	-0.018475	5	0.286145
			4	-0.012391	7	0.177176
			6	-0.007582	8	0.113442
			9	-0.003168	9	0.517713
			BIAS CORR	0.024074		
			VAR COEFF	0.002703		0.199089
			EFFICIENCY	99.98		99.81
11	9	3	1	1.087255	3	0.410674
			2	-0.045367	5	0.286570
			3	-0.024151	7	0.177847
			5	-0.012470	8	0.113072
			9	-0.003271	9	0.518563
			BIAS CORR	0.024557		
			VAR COEFF	0.002704		0.197335
			EFFICIENCY	99.95		99.68
13	9	4	1	1.087947	3	0.411785
			2	-0.045673	5	0.287589
			4	-0.024794	7	0.249342
			9	-0.006423	9	0.562937
			BIAS CORR	0.024743		
			VAR COEFF	0.002706		0.199770
			EFFICIENCY	99.89		99.49
13	9	5	1	1.089660	4	0.523792
			2	-0.065291	7	0.301862
			3	-0.024364	9	0.565897
			BIAS CORR	0.027086		
			VAR COEFF	0.002710		0.200829
			EFFICIENCY	99.72		98.94
13	9	6	1	1.065222	9	0.653324
			3	-0.065222	9	0.551310
			BIAS CORR	0.010428		
			VAR COEFF	0.002722		0.201609
			EFFICIENCY	99.29		97.95
13	9	1	1	1.000000	9	0.861279

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
11	8	8		BIAS CORR		0.038951
				VAR COEFF		0.002777
				EFFICIENCY		97.33
						0.220526
						90.10
			1	1.086910	1	0.248427
			2	-0.045342	2	0.221336
			3	-0.018403	3	0.177580
			4	-0.009455	4	0.186622
			5	-0.004931	5	0.149683
11	8	7	6	-0.003390	6	0.153024
			7	-0.001761	7	0.137779
			8	-0.003627	8	0.744926
				BIAS CORR		0.024404
				VAR COEFF		0.002703
				EFFICIENCY		100.00
				EFF(M/N)		99.97
						0.223669
						100.00
						61.44
11	8	6	1	1.086945	2	0.317300
			2	-0.045373	3	0.177715
			3	-0.019362	4	0.186803
			4	-0.009493	5	0.149648
			5	-0.004910	6	0.153249
			6	-0.004482	7	0.137702
			8	-0.004324	8	0.745307
				BIAS CORR		0.024425
				VAR COEFF		0.002703
				EFFICIENCY		100.00
11	8	5	1	1.087036	2	0.426909
			2	-0.045399	4	0.259971
			3	-0.018346	5	0.149418
			4	-0.012473	6	0.153994
			6	-0.006486	7	0.136947
			8	-0.004332	8	0.746149
				BIAS CORR		0.024453
				VAR COEFF		0.002703
				EFFICIENCY		99.99
						0.223583
11	8	4	1	1.087255	2	0.427499
			2	-0.045363	4	0.259697
			3	-0.024191	6	0.215624

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

L	M	L	I	LOCATION		I	SCALE	
11	5	4	5	-0.012470		7	0.136288	
			8	-0.005271		8	0.747299	
				BIAS CORR	0.024557			
				VAR COEFF	0.002704		0.224069	
				EFFICIENCY	99.97		99.82	
			1	1.087947		2	0.428168	
			2	-0.056731		4	0.351876	
12	5	3	4	-0.024794		6	0.299939	
			5	-0.006423		8	0.802495	
				BIAS CORR	0.024743			
				VAR COEFF	0.002706		0.2244 1	
				EFFICIENCY	99.90		99.66	
			1	1.089660		3	0.575688	
			2	-0.065291		6	0.364431	
13	5	2	5	-0.024364		8	0.805212	
				BIAS CORR	0.027086			
				VAR COEFF	0.002710		0.225246	
				EFFICIENCY	99.74		99.30	
			1	1.065222		4	0.724203	
			3	-0.065222		8	0.911341	
				BIAS CORR	0.030428			
14	5	1		VAR COEFF	0.002722		0.227609	
				EFFICIENCY	99.31		98.27	
			1	1.000000		4	1.123822	
				BIAS CORR	0.038951			
				VAR COEFF	0.002777		0.239738	
				EFFICIENCY	97.34		93.22	
15	7	2	1	1.007145		1	0.291846	
			2	-0.045282		2	0.237444	
			3	-0.010526		3	0.230871	
			4	-0.009349		4	0.107717	
			5	-0.005009		5	0.189294	
			6	-0.003366		6	1.165006	
			7	-0.005614		7	1.062272	
				BIAS CORR	0.075021			
				VAR COEFF	0.002704		0.255411	
				EFFICIENCY				

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		53.72
12	7	6	1	1.087184	2	0.349293
			2	-0.045252	3	0.231011
			3	-0.018567	4	0.187925
			4	-0.009321	5	0.189277
			5	-0.007068	6	0.169359
			7	-0.006975	7	1.062737
				BIAS CORR		
				0.025051		
				VAR COEFF		0.255941
				EFFICIENCY		99.95
13	7	6	1	1.087368	2	0.349528
			2	-0.045254	3	0.345358
			3	-0.024230	5	0.267055
			5	-0.010896	6	0.168795
			7	-0.006988	7	1.064086
				BIAS CORR		
				0.025093		
				VAR COEFF		0.256141
				EFFICIENCY		99.87
12	7	6	1	1.087927	2	0.492636
			2	-0.056721	4	0.397943
			4	-0.022676	6	0.248386
			7	-0.008530	7	1.064071
				BIAS CORR		
				0.025223		
				VAR COEFF		0.256443
				EFFICIENCY		99.75
14	7	7	1	1.089660	3	0.534899
			2	-0.065291	5	0.370987
			5	-0.024369	7	1.135908
				BIAS CORR		
				0.027086		
				VAR COEFF		0.256901
				EFFICIENCY		99.58
15	7	7	1	1.065222	4	0.688050
			3	-0.065222	7	1.208789
				BIAS CORR		
				0.030428		
				VAR COEFF		0.258694



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		98.99
13	7	1	1	1.000000	7	1.473470
				BIAS CORR		
				VAR COEFF		0.268081
				EFFICIENCY		95.42
13	6		1	1.087589	1	0.334027
			2	-0.045387	2	0.295344
			3	-0.018435	3	0.247992
			4	-0.009441	4	0.238874
			5	-0.004975	5	0.213964
			6	-0.009347	6	1.518564
				BIAS CORR		
				VAR COEFF		0.298738
				EFFICIENCY		100.00
				EFF(M/N)		46.00
12	6		1	1.087682	2	0.424541
			2	-0.045413	3	0.248218
			3	-0.018418	4	0.239144
			4	-0.012462	5	0.213857
			5	-0.011388	6	1.519553
				BIAS CORR		
				VAR COEFF		0.298908
				EFFICIENCY		99.94
13	6	4	1	1.088144	2	0.577657
			2	-0.045453	4	0.341397
			3	-0.028498	5	0.213606
			6	-0.014193	6	1.521134
				BIAS CORR		
				VAR COEFF		0.299145
				EFFICIENCY		99.86
12	6	2	1	1.089660	2	0.578730
			2	-0.065291	4	0.471277
			3	-0.024369	6	1.610696
				BIAS CORR		
				VAR COEFF		0.299525
				EFFICIENCY		99.74

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

A	M	L	I	LOCATION	I	SCALE
12	6	2	1	1.065222	3	0.779503
			3	-0.065222	6	1.701598
			BIAS CORR	0.030428		
			VAR COEFF	0.002722		0.300937
			EFFICIENCY	99.37		99.27
12	6	1	1	1.000000	6	1.960879
			BIAS CORR	0.038951		
			VAR COEFF	0.002777		0.307984
			EFFICIENCY	97.40		97.00
12	5	3	1	1.088303	1	0.410959
			2	-0.045364	2	0.344241
			3	-0.018529	3	0.313822
			4	-0.009419	4	0.281625
			5	-0.014991	5	2.209359
			BIAS CORR	0.026842		
			VAR COEFF	0.002707		0.358963
			EFFICIENCY	100.00		100.00
12	5	4	EFF(M/N)	99.84		38.28
			1	1.088492	2	0.503258
			2	-0.045365	3	0.314153
			3	-0.024252	4	0.281992
			5	-0.018875	5	2.210948
			BIAS CORR	0.026889		
			VAR COEFF	0.002707		0.359220
			EFFICIENCY	99.98		99.93
12	5	3	1	1.089660	2	0.697205
			2	-0.065291	4	0.411500
			5	-0.024369	5	2.213253
			BIAS CORR	0.027086		
			VAR COEFF	0.002710		0.359599
12	5	2	EFFICIENCY	99.87		99.82
			1	1.065222	3	0.757936
			3	-0.065222	5	2.335986
			BIAS CORR	0.030428		
			VAR COEFF	0.002722		0.360522

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.44
						99.57
12	5	1	1	1.000000	5	2.680632
				BIAS CORR		0.038951
				VAR COEFF		0.002777
				EFFICIENCY		97.47
12	4	4	1	1.089643	1	0.514849
			2	-0.045480	2	0.442273
			3	-0.018549	3	0.392484
			4	-0.023614	4	3.335925
				BIAS CORR		0.028244
				VAR COEFF		0.002710
				EFFICIENCY		100.00
				EFF(M/N)		99.71
12	4	3	1	1.090162	2	0.641614
			2	-0.056912	3	0.392969
			4	-0.033250	4	3.339137
				BIAS CORR		0.028320
				VAR COEFF		0.002711
				EFFICIENCY		99.95
12	4	2	1	1.065222	2	0.884453
			3	-0.065222	4	3.505184
				BIAS CORR		0.030428
				VAR COEFF		0.002722
				EFFICIENCY		99.56
12	4	1	1	1.000000	4	3.830352
				BIAS CORR		0.038951
				VAR COEFF		0.002777
				EFFICIENCY		97.59
12	3	3	1	1.092267	1	0.700556
			2	-0.045635	2	0.598793
			3	-0.046632	3	5.395497
				BIAS CORR		0.030255
				VAR COEFF		0.002717
				EFFICIENCY		100.00
				EFF(M/N)		99.47
						22.96

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
11	2	2	1	1.065222	2	0.870336
			3	-0.065122	3	5.402715
			BIAS CORR	0.030428		
			VAR COEFF	0.002722		0.601879
			EFFICIENCY	99.61		99.88
12	3	1	1	1.000000	3	5.895177
			BIAS CORR	0.038951		
			VAR COEFF	0.002777		0.604422
			EFFICIENCY	97.83		99.46
13	2	2	1	1.098228	1	1.081911
			2	-0.098228	2	9.979577
			BIAS CORR	0.033349		
			VAR COEFF	0.002732		0.906093
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.91		15.17
14	2	1	1	1.000000	2	10.418638
			BIAS CORR	0.038951		
			VAR COEFF	0.002777		0.907882
			EFFICIENCY	98.38		99.80
15	1	1	1	1.000000	1	25.673057
			BIAS CORR	0.038951		
			VAR COEFF	0.002777		1.830233
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.31		7.51

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE		
11	11	11	1	1.000000	1	0.090909		
			2	0.	2	0.090909		
			3	-0.	3	0.090909		
			4	0.	4	0.090909		
			5	-0.	5	0.090909		
			6	0.	6	0.090909		
			7	0.	7	0.090909		
			8	-0.	8	0.090909		
			9	0.	9	0.090909		
			10	0.	10	0.090909		
			11	-0.	11	0.090909		
BIAS CORR				0.090909				
VAR COEFF				0.008264	0.090909			
EFFICIENCY				100.00	100.00			
EFF(M/N)				100.00	100.00			
11	11	10	1	1.000000	2	0.132099		
			2	-0.	3	0.090947		
			3	0.	4	0.090947		
			5	-0.	5	0.090946		
			6	0.	6	0.090947		
			7	0.	7	0.090947		
			8	-0.	8	0.090946		
			9	0.	9	0.090947		
			10	0.	10	0.090946		
			11	-0.	11	0.090946		
			BIAS CORR				0.090909	
VAR COEFF				0.008264	0.090947			
EFFICIENCY				100.00	99.96			
11	11	9	1	1.000000	2	0.183018		
			2	-0.	4	0.131171		
			3	0.	5	0.091004		
			5	-0.	6	0.091004		
			6	-0.	7	0.091004		
			7	0.	8	0.091003		
			8	-0.	9	0.091004		
			10	0.	10	0.091004		
			11	-0.	11	0.091003		
			BIAS CORR				0.090909	
			VAR COEFF				0.008264	0.091004

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
						99.90
11	11	8	1	1.000000	2	0.183214
			2	0.	4	0.183828
			4	0.	6	0.129685
			5	0.	7	0.091101
			7	0.	8	0.091101
			8	-0.	9	0.091101
			9	0.	10	0.091101
			11	-0.	11	0.091101
			BIAS CORR	0.090909		
			VAR COEFF	0.008264		0.091101
			EFFICIENCY	100.00		99.79
11	11	7	1	1.000000	4	0.222101
			2	-0.	5	0.184742
			3	0.	7	0.128697
			4	0.	8	0.091285
			5	-0.	9	0.091285
			7	0.	10	0.091285
			8	-0.	11	0.091285
			BIAS CORR	0.090909		
			VAR COEFF	0.008264		0.091285
			EFFICIENCY	100.00		99.59
11	11	6	1	1.000000	3	0.222915
			2	0.	5	0.185419
			4	0.	7	0.187805
			5	0.	9	0.124603
			7	0.	10	0.091620
			11	-0.	11	0.091620
			BIAS CORR	0.090909		
			VAR COEFF	0.008264		0.091620
			EFFICIENCY	100.00		99.22
11	11	5	1	1.000000	4	0.318773
			2	-0.	7	0.222987
			3	0.	9	0.125371
			6	0.	10	0.092184
			8	-0.	11	0.092184
			BIAS CORR	0.090909		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.008264 100.00		0.092184 98.62
11	11	4	1	1.000000	5	0.356238
			2	-0.	8	0.226388
			4	0.	10	0.122041
			6	-0.	11	0.093326
				BIAS CORR VAR COEFF EFFICIENCY		
				0.090909 0.008264 100.00		0.093376 97.41
11	11	5	1	1.000000	6	0.396766
			2	0.	9	0.236810
			3	-0.	11	0.115184
				BIAS CORR VAR COEFF EFFICIENCY		
				0.090909 0.008264 100.00		0.095987 94.71
11	11	6	1	1.000000	8	0.486391
			3	0.	11	0.140031
				BIAS CORR VAR COEFF EFFICIENCY		
				0.090909 0.008264 100.00		0.103962 87.44
11	11	7	1	1.000000	9	0.657948
				BIAS CORR VAR COEFF EFFICIENCY		
				0.090909 0.008264 100.00		0.133346 69.18
11	13	13	1	1.000000	1	0.100000
			2	0.	2	0.100000
			3	-0.	3	0.100000
			4	0.	4	0.100000
			5	-0.	5	0.100000
			6	0.	6	0.100000
			7	0.	7	0.100000
			8	-0.	8	0.100000
			9	0.	9	0.100000
			10	-0.	10	0.200000
				BIAS CORR VAR COEFF		
				0.090909 0.008264		0.100000

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	I	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		90.91
11	10	9	1	1.000000	2	0.145314
			2	0.	3	0.100045
			4	0.	4	0.100045
			5	0.	5	0.100045
			6	-0.	6	0.100045
			7	0.	7	0.100046
			8	-0.	8	0.100045
			9	0.	9	0.100045
			10	-0.	10	0.200090
				BIAS CORR		
				0.090909		
				VAR COEFF		0.100045
				0.008264		99.95
				EFFICIENCY		100.00
11	10	8	1	1.000000	2	0.201341
			2	0.	4	0.144303
			3	-0.	5	0.100114
			4	0.	6	0.100114
			5	-0.	7	0.100114
			6	0.	8	0.100114
			9	0.	9	0.100114
			10	-0.	10	0.200229
				BIAS CORR		
				0.090909		
				VAR COEFF		0.100114
				0.008264		99.87
				EFFICIENCY		100.00
11	10	7	1	1.000000	2	0.201578
			2	-0.	4	0.202254
			3	0.	6	0.142694
			4	0.	7	0.100232
			5	-0.	8	0.100232
			7	0.	9	0.100232
			8	-0.	10	0.200465
				BIAS CORR		
				0.090909		
				VAR COEFF		0.100232
				0.008264		99.77
				EFFICIENCY		100.00
11	10	6	1	1.000000	3	0.244412
			2	0.	5	0.203300



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION		I	SCALE	
				a	b		a	b
11	11	1	1	=0.		7	0.141673	
			2	0.		8	0.101455	
			3	=0.		9	0.100455	
			4	=0.		10	0.205912	
			5	0.070707				0.150455
			6	0.008764				97.55
			7	100.00				
			8	1.00000				
			9	=0.				
			10	0.				
11	12	1	1	1.00000		3	0.245316	
			2	=0.		6	0.204170	
			3	0.		7	0.204167	
			4	0.		8	0.131171	
			5	=0.		10	0.201171	
			6	0.070707				0.190455
			7	0.008764				97.11
			8	100.00				
			9	1.00000				
			10	=0.				
11	13	1	1	1.00000		3	0.361193	
			2	=0.		7	0.245316	
			3	0.		8	0.131171	
			4	=0.		10	0.201171	
			5	0.070707				0.191545
			6	0.008764				99.55
			7	100.00				
			8	1.00000				
			9	=0.				
			10	0.				
11	14	1	1	1.00000		3	0.397941	
			2	0.		6	0.245316	
			3	=0.		10	0.231516	
			4	0.070707				0.197417
			5	0.008764				97.16
			6	100.00				
			7	1.00000				
			8	0.				
			9	=0.				
			10	0.				
11	15	1	1	1.00000		3	0.401790	
			2	0.		10	0.231516	
			3	0.070707				0.191545
			4	0.008764				97.16
			5	100.00				
			6	1.00000				
			7	0.				
			8	=0.				
			9	0.				
			10	0.				

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 10)

SHAPE PARAMETER = 1.00

N	P	L	I	LOCATION		SCALE	
				EFFICIENCY	100.00	EFFICIENCY	74.97
11	9	9	1		1.000000	1	0.111111
			2		0.	2	0.111111
			3		=0.	3	0.111111
			4		0.	4	0.111111
			5		=0.	5	0.111111
			6		0.	6	0.111111
			7		0.	7	0.111111
			8		=0.	8	0.111111
			9		0.	9	0.111111
				MEAN CORR	0.070707		0.111111
11	9	8	1		1.000000	1	0.161547
			2		0.	2	0.111147
			3		0.	3	0.111147
			4		0.	4	0.111147
			5		=0.	5	0.111147
			6		0.	6	0.111147
			7		=0.	7	0.111147
			8		0.	8	0.111147
			9		0.	9	0.111147
				MEAN CORR	0.070707		0.111147
11	9	7	1		1.000000	1	0.224147
			2		=0.	2	0.160147
			3		0.	3	0.111247
			4		0.	4	0.111247
			5		=0.	5	0.111247
			6		0.	6	0.111247
			7		=0.	7	0.111247
			8		0.	8	0.111247
			9		=0.	9	0.111247
				MEAN CORR	0.070707		0.111247
11	9	6	1		1.000000	1	0.274147
			2		0.	2	0.274147
			3		0.	3	0.274147
			4		0.	4	0.274147
			5		=0.	5	0.274147
			6		0.	6	0.274147
			7		=0.	7	0.274147
			8		0.	8	0.274147
			9		=0.	9	0.274147
				MEAN CORR	0.070707		0.274147

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

L	M	L	LOCATION		SCALE	
			1	2	1	2
			3	=0.	6	0.130378
			4	=0.	7	0.111378
			5	=0.	8	0.111378
			6	=0.	9	0.111378
			BIAS CORR		0.090909	
			VAR CORR		0.008764	
11	7		EFFICIENCY		100.00	
					99.76	
			1	1.000000	3	0.271704
			2	=0.	6	0.274392
			3	=0.	7	0.167661
			4	=0.	8	0.111378
			5	=0.	9	0.085070
			BIAS CORR		0.090909	
			VAR CORR		0.008764	
			EFFICIENCY		100.00	
					99.76	
					99.76	
11	7		1	1.000000	3	0.271704
			2	=0.	6	0.274392
			3	=0.	7	0.167661
			4	=0.	8	0.111378
			BIAS CORR		0.090909	
			VAR CORR		0.008764	
			EFFICIENCY		100.00	
					99.76	
					99.76	
					99.76	
					99.76	
					99.76	
11	7		1	1.000000	3	0.271704
			2	=0.	6	0.274392
			3	=0.	7	0.167661
			4	=0.	8	0.111378
			BIAS CORR		0.090909	
			VAR CORR		0.008764	
			EFFICIENCY		100.00	
					99.76	
					99.76	
					99.76	
					99.76	
					99.76	
11	7		1	1.000000	3	0.271704
			2	=0.	6	0.274392
			3	=0.	7	0.167661
			4	=0.	8	0.111378
			BIAS CORR		0.090909	
			VAR CORR		0.008764	
			EFFICIENCY		100.00	
					99.76	
					99.76	
					99.76	
					99.76	
					99.76	
11	7		1	1.000000	3	0.271704
			2	=0.	6	0.274392
			3	=0.	7	0.167661
			4	=0.	8	0.111378
			BIAS CORR		0.090909	
			VAR CORR		0.008764	
			EFFICIENCY		100.00	
					99.76	
					99.76	
					99.76	
					99.76	
					99.76	

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)  
SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION		SCALE	
				EFFICIENCY	100.00	EFFICIENCY	83.33
11	1	1	1	1.000000		1	0.129000
			2	0.		2	0.129000
			3	-0.		3	0.129000
			4	0.		4	0.129000
			5	-0.		5	0.129000
			6	0.		6	0.129000
			7	0.		7	0.129000
			8	-0.		8	0.129000
				MEAN CORR	0.040404		
				VAN CORR	0.008764		0.129000
11	2	1	1	1.000000		1	0.101664
			2	-0.		2	0.129071
			3	0.		3	0.129071
			4	0.		4	0.129071
			5	-0.		5	0.129071
			6	0.		6	0.129071
			7	0.		7	0.129071
			8	-0.		8	0.129071
				MEAN CORR	0.040404		
				VAN CORR	0.008764		0.129071
11	3	1	1	1.000000		1	0.129174
			2	0.		2	0.129174
			3	-0.		3	0.129174
			4	0.		4	0.129174
			5	-0.		5	0.129174
			6	0.		6	0.129174
			7	0.		7	0.129174
			8	-0.		8	0.129174
				MEAN CORR	0.040404		
				VAN CORR	0.008764		0.129174
11	4	1	1	1.000000		1	0.129174
			2	-0.		2	0.129174
			3	0.		3	0.129174
			4	0.		4	0.129174
			5	-0.		5	0.129174
			6	0.		6	0.129174
			7	0.		7	0.129174
			8	-0.		8	0.129174
				MEAN CORR	0.040404		
				VAN CORR	0.008764		0.129174

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	P	L	I	LOCATION		SCALE	
11	0	4		BIAS CORR	0.090909		
				VAN COEFF	0.008764		0.129341
				EFFICIENCY	100.00		99.71
			1	1.000000		3	0.305863
			2	=0.		9	0.294419
			4	0.		7	0.177234
			6	=0.		8	0.902848
				BIAS CORR	0.090909		
				VAN COEFF	0.008764		0.123712
				EFFICIENCY	100.00		99.43
11	0	5	1	1.000000		3	0.386271
			2	0.		6	0.305482
			3	=0.		8	0.994712
				BIAS CORR	0.090909		
				VAN COEFF	0.008764		0.124351
				EFFICIENCY	100.00		98.73
11	0	7	1	1.000000		3	0.487743
			3	0.		8	0.607472
				BIAS CORR	0.090909		
				VAN COEFF	0.008764		0.124351
				EFFICIENCY	100.00		97.40
11	0	9	1	1.000000		3	0.947784
				BIAS CORR	0.090909		
				VAN COEFF	0.008764		0.135975
				EFFICIENCY	100.00		89.37
11	7	9	1	1.000000		1	0.147897
			2	0.		2	0.142857
			3	=0.		3	0.147897
			4	0.		4	0.147897
			5	=0.		5	0.147897
			6	0.		6	0.147897
			7	0.		7	0.714286
				BIAS CORR	0.090909		
				VAN COEFF	0.008764		0.147897
				EFFICIENCY	100.00		100.00
11	7	9		EFFICIENCY	100.00		63.64

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
11	7	C	1	1.000000	2	0.207632
			2	0.	3	0.142950
			3	-0.	4	0.142950
			4	0.	5	0.142949
			5	-0.	6	0.142949
			6	0.	7	0.714748
			BIAS CORR		0.040404	
			VAN COEFF		0.008264	
			EFFICIENCY		100.00	
					99.74	
11	7	C	1	1.000000	2	0.207771
			2	0.	4	0.206748
			3	0.	5	0.143091
			4	-0.	6	0.143091
			5	0.	7	0.719453
			BIAS CORR		0.040404	
			VAN COEFF		0.708764	
			EFFICIENCY		100.00	
					0.143091	
					99.84	
11	7	C	1	1.000000	2	0.208796
			2	-0.	4	0.207777
			3	0.	6	0.204037
			4	-0.	7	0.714460
			BIAS CORR		0.040404	
			VAN COEFF		0.008764	
			EFFICIENCY		100.00	
					0.143332	
					99.61	
11	7	C	1	1.000000	3	0.247047
			2	0.	5	0.240447
			3	-0.	7	0.777064
			BIAS CORR		0.040404	
			VAN COEFF		0.008764	
			EFFICIENCY		100.00	
					0.143708	
					99.19	
11	7	C	1	1.000000	4	0.307049
			2	0.	7	0.839047
			BIAS CORR		0.040404	
			VAN COEFF		0.008764	
			EFFICIENCY		100.00	
					0.145144	
					98.49	
11	7	1	1	1.000000	7	1.061739

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.090909		0.153254
				0.008264		93.22
				100.00		
11	6	5	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667
			4	0.	4	0.166667
			5	-0.	5	0.166666
			6	0.	6	1.000000
				BIAS CORR		
				0.090909		0.166667
				0.008264		100.00
				100.00		94.39
				100.00		
11	6		1	1.000000	2	0.247778
			2	0.	3	0.166667
			3	-0.	4	0.166667
			4	0.	5	0.166667
			5	-0.	6	1.000000
				BIAS CORR		
				0.090909		0.166667
				0.008264		93.22
				100.00		
11	6	4	1	1.000000	2	0.333333
			2	-0.	3	0.222222
			3	0.	4	0.166667
			4	-0.	5	1.000000
				BIAS CORR		
				0.090909		0.166667
				0.008264		93.22
				100.00		
11	6	3	1	1.000000	2	0.333333
			2	0.	3	0.333333
			3	-0.	4	1.000000
				BIAS CORR		
				0.090909		0.166667
				0.008264		93.22
				100.00		
11	6	2	1	1.000000	3	0.614797
			2	0.	4	1.146612

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	6	1	1	1.000000	6	1.357642
				BIAS CORR		
				VAR COEFF		0.168383
				EFFICIENCY		98.98
11	6	1	1	1.000000	6	1.357642
				BIAS CORR		
				VAR COEFF		0.174049
				EFFICIENCY		95.76
11	9	1	1	1.000000	1	0.200000
				2	2	0.200000
				3	3	0.200000
				4	4	0.200000
				5	5	1.400000
				BIAS CORR		
				VAR COEFF		0.200000
				EFFICIENCY		100.00
				EFF (M/6)		49.49
11	9	6	1	1.000000	2	0.290761
				2	3	0.200191
				4	4	0.200191
				5	5	1.401260
				BIAS CORR		
				VAR COEFF		0.200191
				EFFICIENCY		99.71
11	9	1	1	1.000000	2	0.403143
				2	4	0.288936
				3	5	1.403219
				BIAS CORR		
				VAR COEFF		0.200498
				EFFICIENCY		99.77
11	9	1	1	1.000000	3	0.487437
				3	6	1.495374
				BIAS CORR		
				VAR COEFF		0.201163
				EFFICIENCY		99.42
11	9	1	1	1.000000	9	1.754764



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
11	4	4	1	0.040909		0.205200
			2	0.008264		97.46
			3	100.00		
			4			
		3	1	1.000000	1	0.250000
			2	-0.	2	0.250000
			3	0.	3	0.250000
			4	0.	4	2.000000
		2	1	0.040909		0.250000
			2	0.008264		100.00
			3	100.00		36.76
			4			
11	3	3	1	1.000000	2	0.363333
			2	0.	3	0.250000
			3	-0.	4	2.002200
		2	1	0.040909		0.250000
			2	0.008264		99.09
			3	100.00		
			4			
		1	1	1.000000	2	0.504717
			2	0.	4	2.116346
			3	0.040909		0.250000
			4	0.008264		97.71
11	2	2	1	1.000000	4	2.341819
			2	0.040909		0.250000
			3	0.008264		95.60
			4	100.00		
		1	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	3.000000
			4	0.040909		0.250000
		1	1	0.008264		100.00
			2	100.00		27.27
			3			
			4			
11	1	1	1	1.000000	2	0.444444
			2	0.	3	3.000000
			3			
			4			
		1	1	1.000000		
			2			
			3			
			4			
		1	1	1.000000		
			2			
			3			
			4			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION		I	SCALE	
				BIAS CORR	VAR COEFF		BIAS CORR	VAR COEFF
				100.00	100.00		100.00	100.00
11	3	1	1	1.000000	0.090909	3	3.311037	0.333837
				0.090909	0.008264		0.333578	99.85
				100.00	100.00		99.33	
11	2	2	1	1.000000	0.090909	1	0.500000	0.500000
			2	-0.	0.008264	2	5.000000	0.500000
				0.090909	0.008264		0.500000	100.00
				100.00	100.00		100.00	18.18
11	2	1	1	1.000000	0.090909	2	2.238075	0.501134
				0.090909	0.008264		0.501134	99.77
				100.00	100.00		99.77	
11	1	1	1	1.000000	0.090909	1	11.000000	1.000000
				0.090909	0.008264		1.000000	100.00
				100.00	100.00		100.00	9.09
12	12	12	1	1.000000	0.083333	1	0.083333	0.083333
			2	0.	0.083333	2	0.083333	0.083333
			3	-0.	0.083333	3	0.083333	0.083333
			4	-0.	0.083333	4	0.083333	0.083333
			5	0.	0.083333	5	0.083333	0.083333
			6	-0.	0.083333	6	0.083333	0.083333
			7	-0.	0.083333	7	0.083333	0.083333
			8	-0.	0.083333	8	0.083333	0.083333
			9	0.	0.083333	9	0.083333	0.083333
			10	-0.	0.083333	10	0.083333	0.083333
			11	0.	0.083333	11	0.083333	0.083333
			12	0.	0.083333	12	0.083333	0.083333
				0.083333	0.006944		0.083333	0.083333
				0.006944	0.006944		0.083333	0.083333

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	1.000000	2	0.121422
			3	0.	3	0.083360
			4	-0.	4	0.083360
			5	0.	5	0.083360
			6	0.	6	0.083360
			7	-0.	7	0.083360
			8	-0.	8	0.083360
			9	0.	9	0.083360
			10	-0.	10	0.083360
			11	0.	11	0.083360
			12	-0.	12	0.083360
				BIAS CORR		
				VAR COEFF		0.083360
				EFFICIENCY		99.97
12	12	12	1	1.000000	2	0.167554
			4	-0.	4	0.120770
			5	0.	5	0.083360
			6	-0.	6	0.083360
			7	0.	7	0.083360
			8	0.	8	0.083360
			9	0.	9	0.083360
			10	-0.	10	0.083360
			11	0.	11	0.083360
			12	0.	12	0.083360
				BIAS CORR		
				VAR COEFF		0.083360
				EFFICIENCY		99.97
12	12	13	1	1.000000	2	0.167678
			2	0.	4	0.166070
			3	-0.	6	0.117650
			4	-0.	7	0.083460
			5	0.	8	0.083460
			6	-0.	9	0.083460
			7	0.	10	0.083460
			8	-0.	11	0.083460
			9	0.	12	0.083460

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION		I	SCALE	
				BIAS CORR			BIAS CORR	
				VAR COEFF			VAR COEFF	
				EFFICIENCY			EFFICIENCY	
12	12	6	1	1.000000	0.083333	2	0.167907	0.083460
			2	0.	0.006944	4	0.167907	99.85
			3	-0.	100.00	6	0.159136	
			4	-0.		8	0.117826	
			5	0.		9	0.083574	
			6	-0.		10	0.083574	
			8	0.		11	0.083574	
			10	-0.		12	0.083574	
				BIAS CORR	0.083333			
				VAR COEFF	0.006944			0.083574
				EFFICIENCY	100.00			99.71
12	12	7	1	1.000000	0.083333	3	0.204137	0.083749
			4	-0.	0.006944	5	0.168994	99.50
			5	0.	100.00	7	0.170287	
			7	-0.		9	0.116432	
			8	0.		10	0.083750	
			9	-0.		11	0.083749	
			10	-0.		12	0.083749	
				BIAS CORR	0.083333			
				VAR COEFF	0.006944			0.083749
				EFFICIENCY	100.00			99.50
12	12	8	1	1.000000	0.083333	3	0.256014	0.084065
			2	0.	0.006944	6	0.203731	99.13
			3	0.	100.00	8	0.172310	
			6	0.		10	0.114378	
			10	-0.		11	0.084065	
			12	0.		12	0.084065	
				BIAS CORR	0.083333			
				VAR COEFF	0.006944			0.084065
				EFFICIENCY	100.00			99.13
12	12	9	1	1.000000		4	0.292210	
			2	0.		7	0.204872	
			3	0.		9	0.176312	
			6	-0.		11	0.110711	

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			11	0.	12	0.084661
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.084661
			EFFICIENCY	100.00		98.43
12	12	4	1	1.000000	5	0.391131
			4	-0.	9	0.234587
			5	0.	11	0.112256
			6	-0.	12	0.085843
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.085843
			EFFICIENCY	100.00		97.08
12	12	3	1	1.000000	6	0.435832
			4	0.	10	0.241293
			5	-0.	12	0.105847
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.084206
			EFFICIENCY	100.00		94.48
12	12	2	1	1.000000	8	0.552632
			4	0.	12	0.140623
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.096097
			EFFICIENCY	100.00		86.72
12	12	1	1	1.000000	10	0.623748
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.122545
			EFFICIENCY	100.00		68.00
12	11	11	1	1.000000	1	0.090909
			2	0.	2	0.090909
			3	-0.	3	0.090909
			4	-0.	4	0.090909
			5	0.	5	0.090909
			6	-0.	6	0.090909
			7	-0.	7	0.090909
			8	-0.	8	0.090909
			9	0.	9	0.090909
			10	-0.	10	0.090909

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
12	11	10	11	0.	11	0.181818
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.090909
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		91.67
			1	1.000000	2	0.132464
			3	0.	3	0.090940
			4	-0.	4	0.090940
			5	0.	5	0.090940
			6	0.	6	0.090940
			7	-0.	7	0.090941
12	11	9	8	-0.	8	0.090940
			9	0.	9	0.090940
			10	-0.	10	0.090940
			11	-0.	11	0.181811
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.090940
			EFFICIENCY	100.00		99.97
			1	1.000000	2	0.182799
			2	0.	4	0.131724
			3	-0.	5	0.090986
			4	-0.	6	0.090986
12	11	8	5	0.	7	0.090986
			6	-0.	8	0.090986
			8	0.	9	0.090986
			10	-0.	10	0.090986
			11	0.	11	0.181972
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.090986
			EFFICIENCY	100.00		99.92
			1	1.000000	2	0.182946
			2	0.	4	0.183383
			3	-0.	6	0.130545
12	11	6	4	-0.	7	0.091059
			5	0.	8	0.091059
			6	-0.	9	0.091059
			8	0.	10	0.091059
			10	-0.	11	0.182119

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.00

N	F	L	I	LOCATION	I	SCALE		
				BIAS CORR				
				VAR COEFF				
				EFFICIENCY				
				0.083333				
				0.006944		0.091059		
				100.00		99.84		
12	11	7	1	1.000000	2	0.183220		
			4	-0.	4	0.183657		
			5	0.	6	0.184561		
			7	-0.	8	0.128571		
			8	0.	9	0.091195		
			9	-0.	10	0.091195		
			10	-0.	11	0.182391		
				BIAS CORR				
				VAR COEFF				
				EFFICIENCY				
						0.083333		0.091195
						0.006944		99.60
			100.00					
12	11	6	1	1.000000	3	0.222791		
			3	0.	5	0.184441		
			4	0.	7	0.183852		
			7	-0.	9	0.127075		
			9	0.	10	0.091405		
			10	-0.	11	0.182809		
				BIAS CORR				
				VAR COEFF				
				EFFICIENCY				
						0.083333		0.091405
						0.006944		99.46
						100.00		
12	11	5	1	1.000000	3	0.279511		
			2	0.	6	0.222430		
			5	0.	8	0.188134		
			8	-0.	10	0.124821		
			11	0.	11	0.183560		
				BIAS CORR				
				VAR COEFF				
				EFFICIENCY				
						0.083333		0.091780
						0.006944		99.05
						100.00		
			12	11	4	1	1.000000	4
4	-0.	7				0.223766		
5	0.	9				0.192619		
6	-0.	11				0.213443		
	BIAS CORR							
	VAR COEFF							
	EFFICIENCY							
						0.083333		0.092492
						0.006944		98.29
						100.00		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	1.000000	5	0.427860
			4	0.	9	0.256616
			6	-0.	11	0.216702
			BIAS CORR			
			VAR COEFF			0.093904
			EFFICIENCY			76.81
12	11	2	1	1.000000	7	0.522415
			4	0.	11	0.271815
			BIAS CORR			
			VAR COEFF			0.098195
			EFFICIENCY			92.58
12	11	1	1	1.000000	10	0.623748
			BIAS CORR			
			VAR COEFF			0.122545
			EFFICIENCY			74.18
12	10	10	1	1.000000	1	0.100000
			2	0.	2	0.100000
			3	-0.	3	0.100000
			4	-0.	4	0.100000
			5	0.	5	0.100000
			6	-0.	6	0.100000
			7	-0.	7	0.100000
			8	-0.	8	0.100000
			9	0.	9	0.100000
			10	-0.	10	0.300000
			BIAS CORR			
			VAR COEFF			0.100000
			EFFICIENCY			100.00
			EFF(M/N)			83.33
12	10	9	1	1.000000	2	0.145715
			2	0.	3	0.100038
			3	-0.	4	0.100038
			4	-0.	5	0.100038
			5	0.	6	0.100038
			6	-0.	7	0.100038
			8	-0.	8	0.100038



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
12	10	9	9	0.	9	0.100038
			10	-0.	10	0.300113
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.100038
			EFFICIENCY	100.00		99.96
			1	1.000000	2	0.201096
			2	0.	4	0.144886
			3	-0.	5	0.100093
			4	-0.	6	0.100093
			5	0.	7	0.100093
12	10	8	6	-0.	8	0.100093
			8	0.	9	0.100093
			10	-0.	10	0.300279
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.100093
			EFFICIENCY	100.00		99.91
			1	1.000000	2	0.201274
			4	-0.	4	0.201755
			5	0.	6	0.143624
			7	-0.	7	0.100182
12	10	7	8	0.	8	0.100182
			9	-0.	9	0.100182
			10	-0.	10	0.300545
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.100182
			EFFICIENCY	100.00		99.82
			1	1.000000	2	0.201605
			3	0.	4	0.202087
			4	0.	6	0.203081
			7	-0.	8	0.141472
12	10	6	9	0.	9	0.100347
			10	-0.	10	0.301040
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.100347
			EFFICIENCY	100.00		99.65
			1	1.000000	2	0.245203
			3	0.	5	0.202995
			4	0.		
			7	-0.		
			9	0.		
12	10	5	1	1.000000	3	0.245203
			2	0.	5	0.202995

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			5	0.	7	0.204548
			9	0.	9	0.139858
			10	-0.	10	0.301800
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.100600
			EFFICIENCY	100.00		99.47
12	10	4	1	1.000000	3	0.307757
			4	-0.	6	0.244908
			5	0.	8	0.207146
			6	-0.	10	0.339544
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.101055
			EFFICIENCY	100.00		98.96
12	10	3	1	1.000000	5	0.389622
			4	0.	8	0.246675
			5	-0.	10	0.342798
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.102023
			EFFICIENCY	100.00		98.02
12	10	2	1	1.000000	6	0.518090
			4	0.	10	0.412658
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.104854
			EFFICIENCY	100.00		95.37
12	10	1	1	1.000000	10	0.623748
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.122545
			EFFICIENCY	100.00		81.60
12	9	9	1	1.000000	1	0.111111
			2	0.	2	0.111111
			3	-0.	3	0.111111
			4	-0.	4	0.111111
			5	0.	5	0.111111
			6	-0.	6	0.111111
			7	-0.	7	0.111111
			8	-0.	8	0.111111

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			9	0.	9	0.444445
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.111111
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		75.00
12	9	8	1	1.000000	2	0.161913
			2	0.	3	0.111158
			3	-0.	4	0.111158
			4	-0.	5	0.111158
			5	0.	6	0.111158
			6	-0.	7	0.111158
			8	-0.	8	0.111157
			9	0.	9	0.444631
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.111158
			EFFICIENCY	100.00		99.96
12	9	7	1	1.000000	2	0.223463
			2	0.	4	0.161001
			3	-0.	5	0.111226
			5	0.	6	0.111226
			6	-0.	7	0.111226
			7	-0.	8	0.111226
			8	0.	9	0.444904
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.111226
			EFFICIENCY	100.00		99.97
12	9	6	1	1.000000	2	0.223683
			3	0.	4	0.224217
			6	0.	6	0.159614
			7	0.	7	0.111336
			8	0.	8	0.111336
			9	-0.	9	0.445342
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.111336
			EFFICIENCY	100.00		99.80
12	9	5	1	1.000000	2	0.224092
			3	0.	4	0.224627

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			5	0.	6	0.225732
			6	-0.	8	0.157252
			7	-0.	9	0.446157
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	9	4	1	1.000000	3	0.272630
			4	-0.	5	0.225701
			5	0.	7	0.227427
			6	-0.	9	0.491058
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	9	3	1	1.000000	4	0.389314
			4	0.	7	0.272178
			6	-0.	9	0.493913
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	9	2	1	1.000000	5	0.522153
			4	0.	9	0.577629
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	9	1	1	1.000000	9	0.787478
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	8	9	1	1.000000	1	0.125000
			2	0.	2	0.125000
			3	-0.	3	0.125000
			4	-0.	4	0.125000
			5	0.	5	0.125000
			6	-0.	6	0.125000
			7	-0.	7	0.125000
			8	0.	8	0.625000

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.083333				
				VAR COEFF	0.006944	0.125000			
				EFFICIENCY	100.00	100.00			
				EFF(M/N)	100.00	66.67			
12	8	7	1	1.000000	2	0.182161			
			2	0.	3	0.125059			
			3	-0.	4	0.125059			
			5	0.	5	0.125059			
			6	-0.	6	0.125059			
			7	-0.	7	0.125059			
			8	0.	8	0.625295			
				BIAS CORR	0.083333				
				VAR COEFF	0.006944	0.125059			
				EFFICIENCY	100.00	99.95			
			12	8	6	1	1.000000	2	0.251428
						4	-0.	4	0.181150
5	0.	5				0.125145			
6	-0.	6				0.125146			
7	0.	7				0.125145			
8	-0.	8				0.625727			
	BIAS CORR	0.083333							
	VAR COEFF	0.006944				0.125145			
	EFFICIENCY	100.00				99.88			
12	8	5				1	1.000000	2	0.251707
						3	0.	4	0.252308
						5	0.	6	0.179611
			6	-0.	7	0.125284			
			7	-0.	8	0.626421			
				BIAS CORR	0.083333				
				VAR COEFF	0.006944	0.125284			
				EFFICIENCY	100.00	99.77			
			12	8	4	1	1.000000	2	0.252225
						4	-0.	4	0.252827
						5	0.	6	0.254071
						6	-0.	8	0.679162
	BIAS CORR	0.083333							
	VAR COEFF	0.006944				0.125542			

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
						99.57
12	8	3	1	1.000000	3	0.383769
			4	0.	6	0.305397
			6	-0.	8	0.681715
				BIAS CORR		
				VAR COEFF		0.126014
				EFFICIENCY		99.20
12	8	2	1	1.000000	5	0.487007
			4	0.	8	0.736809
				BIAS CORR		
				VAR COEFF		0.127523
				EFFICIENCY		98.02
12	8	1	1	1.000000	8	0.980510
				BIAS CORR		
				VAR COEFF		0.135909
				EFFICIENCY		91.97
12	7	7	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	-0.	3	0.142857
			4	-0.	4	0.142857
			5	0.	5	0.142857
			6	-0.	6	0.142857
			7	-0.	7	0.857143
				BIAS CORR		
				VAR COEFF		0.142857
				EFFICIENCY		100.00
				EFF(M/N)		58.33
12	7	6	1	1.000000	2	0.208198
			2	0.	3	0.142934
			3	-0.	4	0.142934
			5	0.	5	0.142934
			6	-0.	6	0.142934
			7	-0.	7	0.857605
				BIAS CORR		
				VAR COEFF		0.142934
				EFFICIENCY		99.95

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
12	7	5	1	1.000000	2	0.287395
			3	0.	4	0.207063
			5	0.	5	0.143047
			6	-0.	6	0.143047
			7	-0.	7	0.050203
				BIAS CORR		
				0.083333		
				VAR COEFF		0.143047
				0.006944		49.97
				EFFICIENCY		100.00
12	7	4	1	1.000000	2	0.287759
			4	-0.	4	0.288446
			5	0.	6	0.209337
			6	-0.	7	0.059371
				BIAS CORR		
				0.083333		
				VAR COEFF		0.143220
				0.006944		49.74
				EFFICIENCY		100.00
12	7	3	1	1.000000	3	0.349963
			4	0.	5	0.289773
			6	-0.	7	0.922209
				BIAS CORR		
				0.083333		
				VAR COEFF		0.143580
				0.006944		99.50
				EFFICIENCY		100.00
12	7	2	1	1.000000	4	0.494286
			4	0.	7	0.985073
				BIAS CORR		
				0.083333		
				VAR COEFF		0.144693
				0.006944		98.76
				EFFICIENCY		100.00
12	7	1	1	1.000000	7	1.219695
				BIAS CORR		
				0.083333		
				VAR COEFF		0.150797
				0.006944		94.73
				EFFICIENCY		100.00
12	6	1	1	1.000000	1	0.166667
			7	0.	2	0.166667
			3	-0.	3	0.166667
			4	-0.	4	0.166667
			5	0.	5	0.166667

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			6	-0.	6	1.166667
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.166667
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		50.00
12	6	1	1	1.000000	2	0.242920
			2	0.	3	0.166772
			3	-0.	4	0.166772
			4	-0.	5	0.166772
			5	0.	6	1.167401
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.166772
			EFFICIENCY	100.00		99.94
12	6	4	1	1.000000	2	0.335368
			4	-0.	4	0.241627
			5	0.	5	0.166925
			6	-0.	6	1.168478
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.166925
			EFFICIENCY	100.00		99.85
12	6	5	1	1.000000	2	0.335864
			4	0.	4	0.336666
			6	-0.	6	1.242697
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.167172
			EFFICIENCY	100.00		99.70
12	6	2	1	1.000000	3	0.511666
			4	0.	6	1.316083
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.168010
			EFFICIENCY	100.00		99.20
12	6	1	1	1.000000	6	1.530900
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.172464
			EFFICIENCY	100.00		96.64



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
12	5	3	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	-0.	3	0.200000
			4	-0.	4	0.200000
			5	0.	5	1.600000
		BIAS CORR		0.083333		
				0.006944		0.200000
				100.00		100.00
				100.00		41.67
12	5	4	1	1.000000	2	0.291541
			2	0.	3	0.200151
			3	-0.	4	0.200151
			4	0.	5	1.601208
		BIAS CORR		0.083333		
				0.006944		0.200151
				100.00		99.92
12	5	2	1	1.000000	2	0.402567
			2	0.	4	0.290042
			3	-0.	5	1.602981
		BIAS CORR		0.083333		
				0.006944		0.203373
				100.00		99.81
12	5	2	1	1.000000	3	0.489781
			4	0.	5	1.696238
		BIAS CORR		0.083333		
				0.006944		0.200943
				100.00		99.53
12	5	1	1	1.000000	5	1.959426
				0.083333		
				0.006944		0.204175
				100.00		97.96
		BIAS CORR				
12	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	3	0.250000
			4	0.	4	2.250000
		BIAS CORR		0.083333		

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
12	4	3		VAR COEFF		0.250000
				EFFICIENCY		100.00
				EFF(M/N)		33.33
			1	1.000000	2	0.364495
			2	0.	3	0.250236
			3	-0.	4	2.252125
		2		BIAS CORR		
				VAR COEFF		0.250236
				EFFICIENCY		99.91
			1	1.000000	2	0.503443
			4	0.	4	2.367382
				BIAS CORR		
		1		VAR COEFF		0.250583
				EFFICIENCY		95.77
			1	1.000000	4	2.595020
				BIAS CORR		
				VAR COEFF		0.252897
				EFFICIENCY		98.85
12	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	3.333333
				BIAS CORR		
				VAR COEFF		0.333333
				EFFICIENCY		100.00
		2		EFF(M/N)		25.00
			1	1.000000	2	0.486146
			2	0.	3	3.337532
				BIAS CORR		
				VAR COEFF		0.333753
				EFFICIENCY		99.87
12	3	1	1	1.000000	3	3.646409
				BIAS CORR		
				VAR COEFF		0.335185
				EFFICIENCY		99.45

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	1.000000	1	0.500000
			2	0.	2	5.500000
				BIAS CORR		
				0.083333		
				VAR COEFF		0.500000
				0.006944		
12	2	1		EFFICIENCY		100.00
				100.00		
				EFF(M/N)		16.67
				100.00		
			1	1.000000	2	5.739131
				BIAS CORR		
12	1	1		0.083333		
				VAR COEFF		0.500945
				0.006944		
				EFFICIENCY		99.81
				100.00		
			1	1.000000	1	12.000000
13	13	13		BIAS CORR		
				0.083333		
				VAR COEFF		1.000000
				0.006944		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		8.33
				100.00		
			1	1.000000	1	0.076923
			2	0.	2	0.076923
			3	-0.	3	0.076923
			4	0.	4	0.076923
			5	-0.	5	0.076923
			6	0.	6	0.076923
			7	-0.	7	0.076923
			8	0.	8	0.076923
			9	-0.	9	0.076923
			10	-0.	10	0.076923
			11	0.	11	0.076923
			12	-0.	12	0.076923
			13	-0.	13	0.076923
13	13	12		BIAS CORR		
				0.076923		
				VAR COEFF		0.076923
				0.005917		
				EFFICIENCY		100.00
				100.00		
13	13	12	1	1.000000	2	0.112340
			2	0.	3	0.076942
			3	-0.	4	0.076942
			4	0.	5	0.076942
			5	-0.	6	0.076942

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			6	0.	7	0.076942
			7	-0.	8	0.076942
			8	0.	9	0.076942
			9	-0.	10	0.076942
			11	0.	11	0.076942
			12	-0.	12	0.076942
			13	-0.	13	0.076942
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.076942
			EFFICIENCY	100.00		99.98
12	12	11	1	1.000000	2	0.154521
			2	0.	4	0.111796
			3	-0.	5	0.076969
			4	0.	6	0.076969
			5	-0.	7	0.076969
			6	0.	8	0.076969
			7	-0.	9	0.076969
			8	0.	10	0.076969
			9	-0.	11	0.076969
			10	0.	12	0.076969
			12	0.	13	0.076969
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.076969
			EFFICIENCY	100.00		99.94
13	13	10	1	1.000000	2	0.154603
			2	0.	4	0.154875
			3	-0.	6	0.111000
			4	0.	7	0.077010
			5	-0.	8	0.077010
			6	0.	9	0.077010
			7	-0.	10	0.077010
			8	0.	11	0.077010
			10	-0.	12	0.077010
			12	0.	13	0.077010
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.077010
			EFFICIENCY	100.00		99.89
13	13	9	1	1.000000	2	0.154743

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			2	0.	4	0.155015
			3	-0.	6	0.155535
			4	0.	8	0.109725
			5	-0.	9	0.077079
			6	-0.	10	0.077079
			8	0.	11	0.077080
			10	-0.	12	0.077079
			11	0.	13	0.077079
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.077080
			EFFICIENCY	100.00		99.90
13	13	8	1	1.000000	3	0.188446
			2	0.	5	0.155449
			3	-0.	7	0.156213
			4	0.	9	0.108823
			5	-0.	10	0.077189
			6	-0.	11	0.077189
			8	0.	12	0.077188
			10	-0.	13	0.077188
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.077188
			EFFICIENCY	100.00		99.66
13	13	7	1	1.000000	3	0.234971
			2	0.	6	0.187877
			3	-0.	8	0.157312
			4	0.	10	0.107561
			5	-0.	11	0.077369
			10	0.	12	0.077369
			12	0.	13	0.077369
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.077369
			EFFICIENCY	100.00		99.42
13	13	6	1	1.000000	4	0.267379
			2	0.	7	0.188248
			3	-0.	9	0.159222
			4	0.	11	0.105639
			5	0.	12	0.077676
			12	0.	13	0.077676

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.077676
			EFFICIENCY	100.00		99.03
12	13	3	1	1.000000	5	0.299403
			3	0.	8	0.189602
			6	0.	10	0.163038
			7	-0.	12	0.102376
			8	0.	13	0.078288
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.078288
			EFFICIENCY	100.00		98.26
12	13	4	1	1.000000	6	0.389045
			3	0.	10	0.217100
			4	0.	12	0.103888
			5	-0.	13	0.079444
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.079444
			EFFICIENCY	100.00		96.83
12	13	5	1	1.000000	7	0.428615
			3	0.	11	0.223421
			4	-0.	13	0.098007
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.081673
			EFFICIENCY	100.00		94.18
13	13	2	1	1.000000	9	0.533452
			3	-0.	13	0.130469
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.089154
			EFFICIENCY	100.00		86.28
12	13	1	1	1.000000	11	0.595191
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.113677
			EFFICIENCY	100.00		67.67
12	12	12	1	1.000000	1	0.083333
			2	0.	2	0.053333

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			3	-0.	3	0.083333
			4	0.	4	0.083333
			5	-0.	5	0.083333
			6	0.	6	0.083333
			7	-0.	7	0.083333
			8	0.	8	0.083333
			9	-0.	9	0.083333
			10	-0.	10	0.083333
			11	0.	11	0.083334
			12	-0.	12	0.166667
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.083333
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		92.31
13	12	11	1	1.000000	2	0.121704
			2	0.	3	0.083356
			3	-0.	4	0.083356
			4	0.	5	0.083356
			5	-0.	6	0.083356
			6	0.	7	0.083356
			7	-0.	8	0.083356
			8	0.	9	0.083356
			9	-0.	10	0.083356
			10	0.	11	0.083356
			12	0.	12	0.166711
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.083356
			EFFICIENCY	100.00		99.97
13	12	10	1	1.000000	2	0.167406
			2	0.	4	0.121119
			3	-0.	5	0.083387
			4	0.	6	0.083387
			5	-0.	7	0.083387
			6	0.	8	0.083387
			7	-0.	9	0.083387
			8	0.	10	0.083387
			10	-0.	11	0.083387
			12	0.	12	0.166774
			BIAS CORR	0.076923		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.083387
				EFFICIENCY		99.94
12	12	9	1	1.000000	2	0.167502
			2	0.	4	0.167797
			3	-0.	6	0.120262
			4	0.	7	0.083435
			5	-0.	8	0.083435
			6	-0.	9	0.083435
			8	0.	10	0.083435
			10	-0.	11	0.083435
			11	0.	12	0.166870
				BIAS CORR		
				0.076923		
				VAR COEFF		0.083435
				0.005917		
				EFFICIENCY		99.88
				100.00		
12	12	9	1	1.000000	2	0.167667
			2	0.	4	0.167962
			3	-0.	6	0.168525
			4	0.	8	0.118899
			5	-0.	9	0.083517
			6	-0.	10	0.083517
			8	0.	11	0.083517
			10	-0.	12	0.167034
				BIAS CORR		
				0.076923		
				VAR COEFF		0.083517
				0.005917		
				EFFICIENCY		99.78
				100.00		
12	12	7	1	1.000000	3	0.204209
			2	0.	5	0.168451
			3	-0.	7	0.169280
			4	0.	9	0.117925
			5	-0.	10	0.083645
			10	0.	11	0.083645
			12	0.	12	0.167290
				BIAS CORR		
				0.076923		
				VAR COEFF		0.083645
				0.005917		
				EFFICIENCY		99.63
				100.00		
12	12	6	1	1.000000	3	0.254675
			2	0.	6	0.203631



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			3	-0.	8	0.170504
			4	0.	10	0.116581
			5	0.	11	0.083856
			12	0.	12	0.167713
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.083857
			EFFICIENCY	100.00		99.38
12	12		1	1.000000	4	0.290439
			3	0.	7	0.204101
			6	0.	9	0.172631
			7	-0.	11	0.114535
			8	0.	12	0.168434
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.084217
			EFFICIENCY	100.00		98.95
13	12		1	1.000000	5	0.324834
			3	0.	8	0.205489
			4	0.	10	0.176886
			5	-0.	12	0.196009
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.084937
			EFFICIENCY	100.00		98.11
13	12	3	1	1.000000	6	0.422619
			3	0.	10	0.235826
			4	-0.	12	0.199154
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.086300
			EFFICIENCY	100.00		96.56
13	12	2	1	1.000000	8	0.506029
			3	-0.	12	0.250532
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.090506
			EFFICIENCY	100.00		92.07
12	12	1	1	1.000000	11	0.595191
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.113677

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				100.00		73.31
12	11	11	1	1.000000	1	0.090909
			2	0.	2	0.090909
			3	-0.	3	0.090909
			4	0.	4	0.090909
			5	-0.	5	0.090909
			6	0.	6	0.090909
			7	-0.	7	0.090909
			8	0.	8	0.090909
			9	-0.	9	0.090909
			10	-0.	10	0.090909
			11	0.	11	0.272727
			BIAS CORR			
			VAR COEFF			0.090909
			EFFICIENCY			100.00
			EFF(M/N)			84.62
12	11	10	1	1.000000	2	0.132772
			2	0.	3	0.090936
			3	-0.	4	0.090936
			4	0.	5	0.090936
			5	-0.	6	0.090935
			6	0.	7	0.090936
			7	-0.	8	0.090935
			8	0.	9	0.090936
			9	-0.	10	0.090935
			11	0.	11	0.272807
			BIAS CORR			
			VAR COEFF			0.090935
			EFFICIENCY			99.97
12	11	9	1	1.000000	2	0.182635
			2	0.	4	0.132137
			3	-0.	5	0.090973
			4	0.	6	0.090973
			5	-0.	7	0.090973
			6	-0.	8	0.090973
			8	0.	9	0.090973
			10	-0.	10	0.090973
			11	0.	11	0.272919

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.076923		
			VAR COEFF	0.005917	0.090973	
			EFFICIENCY	100.00	99.93	
13	11	C	1	1.000000	2	0.182750
			2	0.	4	0.183071
			3	-0.	6	0.131209
			4	0.	7	0.091030
			5	-0.	8	0.091030
			6	-0.	9	0.091030
			8	0.	10	0.091030
			10	-0.	11	0.273040
			BIAS CORR	0.076923		
			VAR COEFF	0.005917	0.091030	
			EFFICIENCY	100.00	99.87	
12	11	7	1	1.000000	2	0.182946
			2	0.	4	0.183260
			3	-0.	6	0.183882
			4	0.	8	0.129723
			5	-0.	9	0.091127
			6	0.	10	0.091128
			7	-0.	11	0.273383
			BIAS CORR	0.076923		
			VAR COEFF	0.005917	0.091128	
			EFFICIENCY	100.00	99.76	
13	11	6	1	1.000000	3	0.222849
			3	0.	5	0.183827
			6	0.	7	0.184732
			7	-0.	9	0.128690
			8	0.	10	0.091280
			9	-0.	11	0.273840
			BIAS CORR	0.076923		
			VAR COEFF	0.005917	0.091280	
			EFFICIENCY	100.00	99.59	
12	11	5	1	1.000000	3	0.277986
			3	0.	6	0.222270
			6	0.	8	0.186111
			7	-0.	10	0.127252

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
13	11	4	8	0.	11	0.274596
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.091532
			EFFICIENCY	100.00		99.32
			1	1.000000	4	0.317149
			3	0.	7	0.222871
			4	0.	9	0.188507
			5	-0.	11	0.308992
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.091962
13	11	3	EFFICIENCY	100.00		98.86
			1	1.000000	5	0.420454
			3	0.	9	0.255927
			4	-0.	11	0.312425
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.092987
			EFFICIENCY	100.00		97.77
			1	1.000000	7	0.502486
			3	-0.	11	0.376826
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.095749
13	11	2	EFFICIENCY	100.00		94.95
			1	1.000000	11	0.595191
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.113677
			EFFICIENCY	100.00		79.97
			1	1.000000	1	0.100000
			2	0.	2	0.100000
			3	-0.	3	0.100000
			4	0.	4	0.100000
			5	-0.	5	0.100000
13	10	10	6	0.	6	0.100000
			7	-0.	7	0.100000
			8	0.	8	0.100000
			9	-0.	9	0.100000
			10	0.	10	0.400000

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.100000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		76.92
13	10	9	1	1.000000	2	0.146053
			2	0.	3	0.100032
			3	-0.	4	0.100032
			4	0.	5	0.100032
			5	-0.	6	0.100032
			6	0.	7	0.100032
			7	-0.	8	0.100032
			8	0.	9	0.100032
			10	-0.	10	0.400128
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.100032
			EFFICIENCY	100.00		99.97
13	10	8	1	1.000000	2	0.200913
			2	0.	4	0.145361
			3	-0.	5	0.100077
			4	0.	6	0.100077
			5	-0.	7	0.100077
			6	-0.	8	0.100077
			8	0.	9	0.100077
			10	-0.	10	0.400309
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.100077
			EFFICIENCY	100.00		99.92
13	10	7	1	1.000000	2	0.201051
			2	0.	4	0.201405
			3	-0.	6	0.144349
			4	0.	7	0.100146
			5	-0.	8	0.100146
			6	0.	9	0.100146
			9	-0.	10	0.400586
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.100146
			EFFICIENCY	100.00		99.85

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER \* 1.00

N	M	L	I	LOCATION	I	SCALE
13	10	6	1	1.000000	2	0.201289
			3	0.	4	0.201643
			6	0.	6	0.202319
			7	-0.	8	0.142730
			8	0.	9	0.100264
			9	-0.	10	0.401058
			BIAS CORR			
			VAR COEFF			0.100265
			EFFICIENCY			99.74
13	10	5	1	1.000000	3	0.245234
			3	0.	5	0.202293
			6	0.	7	0.203288
			7	-0.	9	0.141116
			8	0.	10	0.401796
			BIAS CORR			
			VAR COEFF			0.100449
			EFFICIENCY			99.55
13	10	4	1	1.000000	3	0.305994
			3	0.	6	0.244665
			4	0.	8	0.204862
			5	-0.	10	0.442336
			BIAS CORR			
			VAR COEFF			0.100754
			EFFICIENCY			99.25
13	10	3	1	1.000000	5	0.388251
			3	0.	8	0.245606
			4	-0.	10	0.445694
			BIAS CORR			
			VAR COEFF			0.101519
			EFFICIENCY			98.50
13	10	2	1	1.000000	6	0.506714
			3	-0.	10	0.521546
			BIAS CORR			
			VAR COEFF			0.103472
			EFFICIENCY			96.64
13	10	1	1	1.000000	10	0.742501

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
13	9	9	1	1.000000	1	0.111111
			2	0.	2	0.111111
			3	-0.	3	0.111111
			4	0.	4	0.111111
			5	-0.	5	0.111111
			6	0.	6	0.111111
			7	-0.	7	0.111111
			8	0.	8	0.111111
			9	-0.	9	0.555555
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.076923		0.115655
				0.005917		86.46
				100.00		
13	9	8	1	1.000000	2	0.111111
			2	0.	3	0.111111
			3	-0.	4	0.111111
			4	0.	5	0.111111
			5	-0.	6	0.111111
			6	0.	7	0.111111
			7	-0.	8	0.111111
			8	0.	9	0.111111
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.076923		0.111111
				0.005917		100.00
				100.00		69.23
13	9	7	1	1.000000	2	0.162287
			2	0.	3	0.111151
			3	-0.	4	0.111151
			4	0.	5	0.111151
			5	-0.	6	0.111150
			6	0.	7	0.111151
			7	-0.	8	0.111150
			8	0.	9	0.111150
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.076923		0.111151
				0.005917		99.96
				100.00		
13	9	7	1	1.000000	2	0.223255
			2	0.	4	0.161526
			3	-0.	5	0.111206
			4	0.	6	0.111207
			5	-0.	7	0.111207
			6	0.	8	0.111206
			9	-0.	9	0.556033
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.076923		0.111206
				0.005917		99.91
				100.00		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
13	9	6	1	1.000000	2	0.223427
			3	0.	4	0.223820
			6	0.	6	0.160414
			7	-0.	7	0.111292
			8	0.	8	0.111292
			9	-0.	9	0.556459
			BIAS CORR		0.076923	
			VAR COEFF		0.005917	0.111292
			EFFICIENCY		100.00	99.84
13	9	5	1	1.000000	2	0.223720
			3	0.	4	0.224114
			6	0.	6	0.224865
			7	-0.	8	0.158635
			8	0.	9	0.557189
			BIAS CORR		0.076923	
			VAR COEFF		0.005917	0.111438
			EFFICIENCY		100.00	99.71
13	9	4	1	1.000000	3	0.272618
			3	0.	5	0.224882
			4	0.	7	0.225988
			5	-0.	9	0.604092
			BIAS CORR		0.076923	
			VAR COEFF		0.005917	0.111666
			EFFICIENCY		100.00	99.50
13	9	3	1	1.000000	4	0.386882
			3	0.	7	0.271875
			4	-0.	9	0.606888
			BIAS CORR		0.076923	
			VAR COEFF		0.005917	0.112182
			EFFICIENCY		100.00	99.05
13	9	2	1	1.000000	5	0.514161
			3	-0.	9	0.605035
			BIAS CORR		0.076923	
			VAR COEFF		0.005917	0.113711
			EFFICIENCY		100.00	97.71
13	9	1	1	1.000000	9	0.911743



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.076923		
			VAR COEFF	0.005917	0.122432	
			EFFICIENCY	100.00	90.75	
13	8	8	1	1.000000	1	0.125000
			2	0.	2	0.125000
			3	-0.	3	0.125000
			4	0.	4	0.125000
			5	-0.	5	0.125000
			6	0.	6	0.125000
			7	-0.	7	0.125000
			8	0.	8	0.750000
			BIAS CORR	0.076923		
			VAR COEFF	0.005917	0.125000	
			EFFICIENCY	100.00	100.00	
			EFF(M/N)	100.00	61.54	
			1	1.000000	2	0.182581
			2	0.	3	0.125050
			3	-0.	4	0.125050
			5	0.	5	0.125050
			6	-0.	6	0.125050
			7	-0.	7	0.125050
			8	0.	8	0.750299
			BIAS CORR	0.076923		
			VAR COEFF	0.005917	0.125050	
			EFFICIENCY	100.00	99.96	
13	8	6	1	1.000000	2	0.251189
			2	0.	4	0.181736
			3	-0.	5	0.125121
			4	0.	6	0.125121
			5	-0.	7	0.125121
			7	0.	8	0.750724
			BIAS CORR	0.076923		
			VAR COEFF	0.005917	0.125121	
			EFFICIENCY	100.00	99.90	
			1	1.000000	2	0.251406
			3	0.	4	0.251849
			6	0.	6	0.180502

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
11	8	4	7	-0.	7	0.125229
			8	0.	8	0.751373
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.125229
			EFFICIENCY	100.00		99.82
			1	1.000000	2	0.251777
			3	0.	4	0.252220
12	8	3	4	0.	6	0.253066
			5	-0.	8	0.805598
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.125414
			EFFICIENCY	100.00		99.67
			1	1.000000	3	0.382039
			3	0.	6	0.305469
13	8	2	4	-0.	8	0.808040
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.125794
			EFFICIENCY	100.00		99.37
			1	1.000000	5	0.485655
			3	-0.	8	0.864733
			BIAS CORR	0.076923		
13	8	1	VAR COEFF	0.005917		0.126988
			EFFICIENCY	100.00		98.43
			1	1.000000	8	1.115075
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.133395
			EFFICIENCY	100.00		93.71
			1	1.000000		
13	7	7	2	0.	1	0.142857
			3	-0.	2	0.142857
			4	0.	3	0.142857
			5	0.	4	0.142857
			6	-0.	5	0.142857
			7	0.	6	0.142857
			BIAS CORR	0.076923	7	1.000000
			VAR COEFF	0.005917		
						0.142857

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		53.85
13	7	0	1	1.000000	2	0.208676
			2	0.	3	0.142922
			3	-0.	4	0.142922
			4	0.	5	0.142923
			5	-0.	6	0.142922
			7	0.	7	1.000457
				BIAS CORR		
				VAR COEFF		0.142922
				EFFICIENCY		99.95
13	7	5	1	1.000000	2	0.287113
			2	0.	4	0.207727
			3	-0.	5	0.143015
			4	0.	6	0.143015
			5	-0.	7	1.001104
				BIAS CORR		
				VAR COEFF		0.143015
				EFFICIENCY		99.85
13	7	4	1	1.000000	2	0.287397
			3	0.	4	0.287903
			4	0.	6	0.206342
			5	-0.	7	1.002092
				BIAS CORR		
				VAR COEFF		0.143156
				EFFICIENCY		99.79
13	7	3	1	1.000000	3	0.350184
			3	0.	5	0.288866
			4	-0.	7	1.066257
				BIAS CORR		
				VAR COEFF		0.143437
				EFFICIENCY		99.60
13	7	2	1	1.000000	4	0.497614
			3	-0.	7	1.130279
				BIAS CORR		
				VAR COEFF		0.144291

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
						99.01
13	7	1	1	1.000000	7	1.369612
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						95.79
13	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667
			4	0.	4	0.166667
			5	-0.	5	0.166666
			6	0.	6	1.333333
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
				EFF(M/N)		46.15
13	6	5	1	1.000000	2	0.243474
			2	0.	3	0.166756
			3	-0.	4	0.166755
			4	0.	5	0.166756
			5	-0.	6	1.334044
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						99.95
13	6	4	1	1.000000	2	0.335027
			3	0.	4	0.242393
			4	0.	5	0.166881
			5	-0.	6	1.335051
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						99.87
13	6	3	1	1.000000	2	0.335413
			3	0.	4	0.336003
			4	-0.	6	1.410332
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						99.76

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	1.000000	3	0.509459
			3	-0.	6	1.484891
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.167749
			EFFICIENCY	100.00		99.35
13	6	1	1	1.000000	6	1.702775
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.171348
			EFFICIENCY	100.00		97.27
13	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	-0.	3	0.200000
			4	0.	4	0.200000
			5	-0.	5	1.800000
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.200000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		38.46
13	5	4	1	1.000000	2	0.292199
			3	0.	3	0.200128
			4	0.	4	0.200128
			5	-0.	5	1.801151
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.200128
			EFFICIENCY	100.00		99.94
13	5	3	1	1.000000	2	0.402136
			3	0.	4	0.290947
			4	-0.	5	1.802783
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.200309
			EFFICIENCY	100.00		99.85
13	5	2	1	1.000000	3	0.490182
			3	-0.	5	1.896880
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.200781

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
						99.61
12	5	1	1	1.000000	5	2.163207
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						98.32
13	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	3	0.250000
			4	0.	4	2.500000
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
				EFF(M/N)		100.00
						30.77
13	4	3	1	1.000000	2	0.365308
			3	0.	3	0.250200
			4	-0.	4	2.501998
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						99.92
13	4	2	1	1.000000	2	0.502864
			3	-0.	4	2.620175
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						99.81
13	4	1	1	1.000000	4	2.847660
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						99.05
13	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333334
			3	-0.	3	3.666667
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
				EFF(N/N)		100.00
						23.08

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
13	3	2	1	1.000000	2	0.487207
			3	-0.	3	3.670575
				BIAS CORR		0.333689
				VAR COEFF		99.89
				EFFICIENCY		
13	3	1	1	1.000000	3	3.981439
				BIAS CORR		0.334887
				VAR COEFF		99.54
				EFFICIENCY		
13	2	2	1	1.000000	1	0.500000
			2	0.	2	6.000000
				BIAS CORR		0.500000
				VAR COEFF		100.00
				EFFICIENCY		15.38
13	2	1	1	1.000000	2	6.240000
				BIAS CORR		0.500800
				VAR COEFF		99.84
				EFFICIENCY		
13	1	1	1	1.000000	1	13.000000
				BIAS CORR		1.000000
				VAR COEFF		100.00
				EFFICIENCY		7.69
				EFF(M/N)		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

A	M	L	I	LOCATION	I	SCALE		
11	11	11	1	0.873115	1	0.058147		
			2	0.043206	2	0.066113		
			3	0.024648	3	0.072042		
			4	0.016323	4	0.077019		
			5	0.011745	5	0.081499		
			6	0.008858	6	0.085740		
			7	0.006892	7	0.089939		
			8	0.005434	8	0.094302		
			9	0.004289	9	0.099134		
			10	0.003304	10	0.105104		
			11	0.002186	11	0.117820		
BIAS CORR				0.191536				
VAR COEFF				0.011794	0.058304			
EFFICIENCY				100.00	100.00			
EFF(M/M)				100.00	100.00			
11	11	10	1	0.873164	2	0.095814		
			2	0.043207	3	0.072045		
			3	0.024649	4	0.077040		
			4	0.016322	5	0.081523		
			5	0.011747	6	0.085771		
			6	0.008853	7	0.089971		
			7	0.010211	8	0.094337		
			9	0.006357	9	0.099171		
			10	0.003302	10	0.105144		
			11	0.002186	11	0.117865		
			BIAS CORR				0.191347	
VAR COEFF				0.011795	0.058326			
EFFICIENCY				99.99	99.96			
11	11	9	1	0.873221	2	0.132975		
			2	0.043211	4	0.111105		
			3	0.024647	5	0.081546		
			4	0.016328	6	0.085828		
			5	0.011738	7	0.090013		
			6	0.012069	8	0.094396		
			8	0.011087	9	0.099227		
			10	0.004714	10	0.105207		
			11	0.002185	11	0.117935		
			BIAS CORR				0.191120	
			VAR COEFF				0.011796	0.058361



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				99.99		99.90
				EFFICIENCY		
11	11	8	1	0.873303	2	0.133081
			2	0.043212	4	0.155759
			3	0.024654	6	0.122353
			4	0.016317	7	0.090063
			5	0.016723	8	0.094506
			7	0.014023	9	0.099319
			9	0.008849	10	0.105314
			11	0.002920	11	0.118055
				BIAS CORR		
				0.190693		
				VAR COEFF		0.058421
				0.011797		99.80
				EFFICIENCY		
				99.98		
11	11	7	1	0.873446	3	0.175693
			2	0.043222	5	0.165589
			3	0.024647	7	0.127376
			4	0.022740	8	0.094609
			6	0.018106	9	0.099529
			8	0.011080	10	0.105507
			10	0.006759	11	0.118281
				BIAS CORR		
				0.189325		
				VAR COEFF		0.058533
				0.011799		99.61
				EFFICIENCY		
				99.96		
11	11	6	1	0.873668	3	0.176279
			2	0.043223	5	0.166130
			3	0.033334	7	0.145768
			5	0.024218	9	0.135990
			7	0.017425	10	0.105845
			10	0.008134	11	0.118688
				BIAS CORR		
				0.188689		
				VAR COEFF		0.058738
				0.011802		99.26
				EFFICIENCY		
				99.94		
11	11	5	1	0.874059	4	0.269688
			2	0.055945	7	0.220443
			4	0.040148	9	0.136763
			7	0.021713	10	0.106461
			10	0.008135	11	0.119383
				BIAS CORR		
				0.188286		

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.011807 99.89		0.059084 98.68
11	11	4	1	0.874845	5	0.318860
			2	0.055984	8	0.234635
			4	0.045517	10	0.141144
			8	0.023653	11	0.120759
				BIAS CORR VAR COEFF EFFICIENCY		
				0.183410 0.011818 99.80		0.059781 97.53
11	11	3	1	0.897528	6	0.373148
			3	0.068583	9	0.257766
			7	0.033888	11	0.148588
				BIAS CORR VAR COEFF EFFICIENCY		
				0.180181 0.011837 99.64		0.061397 94.96
11	11	2	1	0.929385	8	0.502503
			5	0.070615	11	0.179915
				BIAS CORR VAR COEFF EFFICIENCY		
				0.171436 0.011893 99.17		0.066267 87.98
11	11	1	1	1.000000	9	0.722856
				BIAS CORR VAR COEFF EFFICIENCY		
				0.136777 0.012123 97.28		0.084870 68.70
11	10	10	1	0.873250	1	0.063948
			2	0.043212	2	0.072706
			3	0.024651	3	0.079216
			4	0.016325	4	0.084691
			5	0.011745	5	0.089589
			6	0.008858	6	0.094246
			7	0.006891	7	0.098800
			8	0.005432	8	0.103585
			9	0.004284	9	0.108672
			10	0.003352	10	0.236961
				BIAS CORR VAR COEFF		
				0.189879 0.011796		0.064137

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				99.98		90.90
				EFFICIENCY		
				EFF(M/N)		
11	10	9	1	0.873299	2	0.105374
			2	0.043214	3	0.079223
			3	0.024653	4	0.084717
			4	0.016324	5	0.089619
			5	0.011748	6	0.094284
			6	0.008854	7	0.098839
			7	0.010209	8	0.103628
			9	0.006350	9	0.108717
			10	0.005350	10	0.237061
				BIAS CORR		
				0.189690		
				VAR COEFF		
				0.011797		
				EFFICIENCY		
				99.99		0.064164
						99.96
11	10	8	1	0.873356	2	0.146247
			2	0.043218	4	0.122182
			3	0.024650	5	0.089649
			4	0.016330	6	0.094352
			5	0.011738	7	0.098891
			6	0.012868	8	0.103699
			8	0.011081	9	0.108785
			10	0.006759	10	0.237217
				BIAS CORR		
				0.189453		
				VAR COEFF		
				0.011797		
				EFFICIENCY		
				99.99		0.064206
						99.89
11	10	7	1	0.873446	2	0.146378
			2	0.043222	4	0.171292
			3	0.024647	6	0.134520
			4	0.022740	7	0.098956
			6	0.018106	8	0.103829
			8	0.011080	9	0.108897
			10	0.006759	10	0.237483
				BIAS CORR		
				0.189325		
				VAR COEFF		
				0.011799		
				EFFICIENCY		
				99.98		0.064279
						99.78
11	10	6	1	0.873668	3	0.193275
			2	0.043223	5	0.182107

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.033334	7	0.140006
			5	0.024218	8	0.103963
			7	0.017425	9	0.109148
			10	0.008134	10	0.237973
			BIAS CORR	0.188689		
			VAR COEFF	0.011802		0.064414
			EFFICIENCY	99.95		99.57
11	10	5	1	0.874059	3	0.193986
			2	0.055945	5	0.182763
			4	0.040148	7	0.204240
			7	0.021713	9	0.149263
			10	0.008135	10	0.238845
			BIAS CORR	0.188286		
			VAR COEFF	0.011807		0.064662
			EFFICIENCY	99.91		99.19
11	10	4	1	0.874845	4	0.296911
			2	0.055984	7	0.242527
			4	0.045517	9	0.150201
			8	0.023653	10	0.240381
			BIAS CORR	0.183410		
			VAR COEFF	0.011818		0.065081
			EFFICIENCY	99.82		98.55
11	10	3	1	0.897528	5	0.351389
			3	0.068583	8	0.258239
			7	0.033888	10	0.280195
			BIAS CORR	0.180181		
			VAR COEFF	0.011837		0.065924
			EFFICIENCY	99.65		97.29
11	10	2	1	0.929385	6	0.508279
			5	0.070615	10	0.349766
			BIAS CORR	0.171436		
			VAR COEFF	0.011893		0.068741
			EFFICIENCY	99.19		93.30
11	10	1	1	1.000000	9	0.722856
			BIAS CORR	0.135777		
			VAR COEFF	0.012123		0.084870

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		75.57
				97.30		
11	9	9	1	0.873492	1	0.071029
			2	0.043223	2	0.080737
			3	0.024657	3	0.087988
			4	0.016327	4	0.093985
			5	0.011747	5	0.099484
			6	0.008856	6	0.104495
			7	0.006890	7	0.109685
			8	0.005423	8	0.114594
			9	0.009385	9	0.371623
				BIAS CORR		
				0.187670		
				VAR COEFF		0.071273
				0.011799		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		81.80
				99.96		
11	9	8	1	0.873541	2	0.117029
			2	0.043225	3	0.088000
			3	0.024659	4	0.094019
			4	0.016326	5	0.099522
			5	0.011750	6	0.104541
			6	0.008851	7	0.109733
			7	0.010203	8	0.114647
			9	0.011446	9	0.371796
				BIAS CORR		
				0.187482		
				VAR COEFF		0.071306
				0.011800		
				EFFICIENCY		99.95
				99.99		
11	9	7	1	0.873606	2	0.162441
			2	0.043226	4	0.135645
			3	0.024662	5	0.099563
			4	0.016321	6	0.104625
			5	0.016724	7	0.109798
			7	0.014017	8	0.114734
			9	0.011445	9	0.372063
				BIAS CORR		
				0.187349		
				VAR COEFF		0.071359
				0.011801		
				EFFICIENCY		99.88
				99.99		
11	9	6	1	0.873753	2	0.162607
			2	0.043227	4	0.190209

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.033338	6	0.149253
			5	0.024220	7	0.109884
			7	0.014017	8	0.114892
			9	0.011446	9	0.372515
				BIAS CORR		
				0.187218		
				VAR COEFF		0.071448
				0.011803		
				EFFICIENCY		99.97
11	9	5	1	0.874080	3	0.214721
			2	0.055950	5	0.202198
			4	0.034384	7	0.155445
			6	0.022016	8	0.115066
			9	0.013569	9	0.373398
				BIAS CORR		
				0.186721		
				VAR COEFF		0.071615
				0.011807		
				EFFICIENCY		99.93
11	9	4	1	0.874845	3	0.215595
			2	0.055984	5	0.203006
			4	0.045517	7	0.226629
			8	0.023653	9	0.418887
				BIAS CORR		
				0.183410		
				VAR COEFF		0.071918
				0.011818		
				EFFICIENCY		99.84
11	9	3	1	0.697528	4	0.330120
			3	0.068583	7	0.269348
			7	0.033888	9	0.421857
				BIAS CORR		
				0.180181		
				VAR COEFF		0.072436
				0.011837		
				EFFICIENCY		98.39
11	9	2	1	0.929385	6	0.450503
			5	0.070615	9	0.471320
				BIAS CORR		
				0.171436		
				VAR COEFF		0.074278
				0.011893		
				EFFICIENCY		95.95
11	9	1	1	1.000000	9	0.722856
				BIAS CORR		
				0.136777		
				VAR COEFF		0.084870
				0.012123		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				97.33		83.98
				EFFICIENCY		
11	8	8	1	0.873865	1	0.079849
			2	0.043240	2	0.090789
			3	0.024663	3	0.098809
			4	0.016333	4	0.105709
			5	0.011744	5	0.111563
			6	0.008859	6	0.117558
			7	0.006877	7	0.122701
			8	0.014419	8	0.529501
				BIAS CORR		
				0.184938		
				VAR COEFF		0.080198
				0.011804		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		72.70
				99.91		
11	8	7	1	0.873917	2	0.131595
			2	0.043243	3	0.098828
			3	0.024662	4	0.105753
			4	0.016337	5	0.111612
			5	0.011738	6	0.117617
			6	0.012862	7	0.122762
			8	0.017241	8	0.529777
				BIAS CORR		
				0.184789		
				VAR COEFF		0.080241
				0.011805		
				EFFICIENCY		99.95
				99.99		
11	8	6	1	0.874008	2	0.182611
			2	0.043247	4	0.152515
			3	0.024659	5	0.111668
			4	0.022746	6	0.117722
			6	0.018100	7	0.122846
			8	0.017240	8	0.530210
				BIAS CORR		
				0.184661		
				VAR COEFF		0.080307
				0.011806		
				EFFICIENCY		99.87
				99.98		
11	8	5	1	0.874248	2	0.182825
			2	0.043250	4	0.213744
			3	0.033348	6	0.167801
			5	0.028883	7	0.122960
			8	0.020272	8	0.530955

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.184238		
			VAR COEFF	0.011809		0.080419
			EFFICIENCY	99.96		99.73
11	8	4	1	0.874845	3	0.241468
			2	0.055984	5	0.227238
			4	0.045517	7	0.174282
			8	0.023853	8	0.532262
			BIAS CORR	0.183410		
			VAR COEFF	0.011818		0.080631
			EFFICIENCY	99.89		99.46
11	8	3	1	0.897528	3	0.305030
			3	0.068583	6	0.286984
			7	0.033888	8	0.585674
			BIAS CORR	0.180181		
			VAR COEFF	0.011837		0.081019
			EFFICIENCY	99.72		98.99
11	8	2	1	0.929385	5	0.437009
			5	0.070615	8	0.639875
			BIAS CORR	0.171436		
			VAR COEFF	0.011893		0.082228
			EFFICIENCY	99.26		97.53
11	8	1	1	1.000000	8	0.881685
			BIAS CORR	0.136777		
			VAR COEFF	0.012123		0.089277
			EFFICIENCY	97.37		89.83
11	7	7	1	0.874414	1	0.091180
			2	0.043262	2	0.103555
			3	0.024677	3	0.112886
			4	0.016331	4	0.120320
			5	0.011752	5	0.127569
			6	0.008842	6	0.133431
			7	0.020722	7	0.720945
			BIAS CORR	0.181642		
			VAR COEFF	0.011812		0.091681
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.85		63.59



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)  
SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
11	7	6	1	0.874479	2	0.150161
			2	0.043263	3	0.112917
			3	0.024680	4	0.120378
			4	0.016326	5	0.127634
			5	0.016721	6	0.133508
			7	0.024531	7	0.721371
			BIAS CORR	0.181510		
			VAR COEFF	0.011813		0.091736
			EFFICIENCY	99.99		99.94
11	7	5	1	0.874626	2	0.208475
			2	0.043264	4	0.173827
			3	0.033359	5	0.127713
			5	0.024220	6	0.133643
			7	0.024531	7	0.722026
			BIAS CORR	0.181379		
			VAR COEFF	0.011815		0.091822
			EFFICIENCY	99.98		99.85
11	7	4	1	0.875017	2	0.208761
			2	0.055998	4	0.243902
			4	0.040164	6	0.190955
			7	0.028821	7	0.723119
			BIAS CORR	0.180976		
			VAR COEFF	0.011820		0.091969
			EFFICIENCY	99.93		99.69
11	7	3	1	0.897528	3	0.275704
			3	0.068583	5	0.259211
			7	0.033888	7	0.783089
			BIAS CORR	0.180181		
			VAR COEFF	0.011837		0.092242
			EFFICIENCY	99.78		99.59
11	7	2	1	0.920385	4	0.422661
			5	0.070615	7	0.842792
			BIAS CORR	0.171436		
			VAR COEFF	0.011893		0.093090
			EFFICIENCY	99.32		98.49
11	7	1	1	1.000000	7	1.066549

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.136777		
			VAR COEFF	0.012123		0.098005
			EFFICIENCY	97.43		93.55
11	6	6	1	0.875211	1	0.106169
			2	0.043297	2	0.120667
			3	0.024684	3	0.131142
			4	0.016345	4	0.140380
			5	0.011734	5	0.147704
			6	0.028729	6	0.962144
		5	BIAS CORR	0.177691		
			VAR COEFF	0.011823		0.107001
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.76		54.49
		4	1	0.875301	2	0.174953
			2	0.043301	3	0.131190
			3	0.024681	4	0.140462
			4	0.022752	5	0.147795
			6	0.033964	6	0.962804
			BIAS CORR	0.177563		
11	6	3	VAR COEFF	0.011824		0.107076
			EFFICIENCY	99.99		99.93
		2	1	0.875595	2	0.242740
			2	0.056029	4	0.202589
			4	0.034406	5	0.147907
			6	0.033969	6	0.963835
		1	BIAS CORR	0.177420		
			VAR COEFF	0.011828		0.107192
			EFFICIENCY	99.95		99.82
		1	1	0.897825	2	0.243131
			3	0.061961	4	0.283815
			6	0.040214	6	1.031682
			BIAS CORR	0.177034		
			VAR COEFF	0.011841		0.107390
			EFFICIENCY	99.84		99.64
11	6	2	1	0.929385	3	0.404795
			5	0.070615	6	1.098674

TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.171436		
				0.011893		0.108036
				99.41		99.04
11	6	1	1	1.000000	6	1.294643
				BIAS CORR		
				0.136777		
				VAR COEFF		0.111466
				0.012123		95.99
				97.52		
11	5	5	1	0.876384	1	0.127099
			2	0.043339	2	0.144203
			3	0.024709	3	0.157114
			4	0.016332	4	0.167195
			5	0.039289	5	1.281071
				BIAS CORR		
				0.172933		
				VAR COEFF		0.128469
				0.011838		100.00
				EFFICIENCY		100.00
				EFF(M/N)		43.38
				99.62		
11	5	4	1	0.876531	2	0.209218
			2	0.043340	3	0.157197
			3	0.033392	4	0.167274
			5	0.046738	5	1.282110
				BIAS CORR		
				0.172803		
				VAR COEFF		0.128576
				0.011841		99.97
				EFFICIENCY		
				99.98		
11	5	3	1	0.877251	2	0.290904
			2	0.066334	4	0.241769
			3	0.036414	5	1.283701
				BIAS CORR		
				0.172373		
				VAR COEFF		0.128743
				0.011891		99.79
				EFFICIENCY		
				99.90		
11	5	2	1	0.929389	3	0.383477
			5	0.070619	5	1.364921
				BIAS CORR		
				0.171436		
				VAR COEFF		0.129163
				0.011893		99.46
				EFFICIENCY		
				99.94		
11	5	1	1	1.000000	5	1.593413

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.136777		
				0.012123		0.131592
				97.65		97.63
11	4	4	1	0.878156	1	0.158138
			2	0.043407	2	0.179538
			3	0.024718	3	0.194836
			4	0.053719	4	1.731688
				BIAS CORR		
				0.167131		
				VAR COEFF		0.160710
				0.011863		100.00
				100.00		100.00
				EFF(M/N)		36.28
11	4	3	1	0.878451	2	0.260483
			2	0.056154	3	0.194972
			4	0.065396	4	1.733418
				BIAS CORR		
				0.166987		
				VAR COEFF		0.160876
				0.011867		99.90
				EFFICIENCY		
11	4	2	1	0.917255	2	0.361411
			4	0.082745	4	1.828251
				BIAS CORR		
				0.166532		
				VAR COEFF		0.161132
				0.011894		94.74
				EFFICIENCY		
11	4	1	1	1.000000	4	2.014635
				BIAS CORR		
				0.136777		
				VAR COEFF		0.162816
				0.012123		98.71
				EFFICIENCY		
11	3	3	1	0.880998	1	0.209373
			2	0.043490	2	0.217131
			3	0.075513	3	2.433309
				BIAS CORR		
				0.159871		
				VAR COEFF		0.214538
				0.011902		100.00
				100.00		100.00
				EFF(M/N)		27.18
11	3	2	1	0.903237	2	0.344412
			3	0.096763	3	2.438433

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	3	1	1	1.000000	3	2.674222
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	2	2	1	0.886033	1	0.309651
			2	0.113967	2	3.741047
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
11	2	1	1	1.000000	2	3.906500
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	1	1	1	1.000000	1	7.311147
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
12	12	12	1	0.871426	1	0.052428
			2	0.042666	2	0.059537
			3	0.024324	3	0.064797
			4	0.016118	4	0.069179
			5	0.011680	5	0.073083
			6	0.008801	6	0.076729
			7	0.006906	7	0.080269
			8	0.005501	8	0.083843
			9	0.004499	9	0.087610
			10	0.003994	10	0.091834
			11	0.002776	11	0.097110
			12	0.001362	12	0.108514
				BIAS CORR		
				VAR COEFF		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				100.00		100.00
12	12	11	1	0.871463	2	0.086517
			2	0.042668	3	0.064796
			3	0.024322	4	0.069193
			4	0.016122	5	0.073098
			5	0.011626	6	0.076751
			6	0.008806	7	0.080289
			7	0.006901	8	0.083868
			8	0.005219	9	0.087635
			10	0.005287	10	0.091861
			11	0.002775	11	0.097139
			12	0.001862	12	0.108551
			BIAS CORR	0.181164		
			VAR COEFF	0.010254		0.053452
			EFFICIENCY	100.00		99.97
12	12	10	1	0.871506	2	0.219590
			2	0.042667	4	0.100191
			3	0.024330	5	0.073103
			4	0.016112	6	0.076800
			5	0.011639	7	0.080302
			6	0.008791	8	0.083918
			7	0.010122	9	0.087663
			9	0.009031	10	0.091904
			11	0.003942	11	0.097181
			12	0.001861	12	0.108599
			BIAS CORR	0.180970		
			VAR COEFF	0.010254		0.053476
			EFFICIENCY	99.99		99.93
12	12	9	1	0.871562	2	0.119652
			2	0.042667	4	0.139543
			3	0.024333	6	0.110212
			4	0.016103	7	0.080303
			5	0.016473	8	0.084013
			7	0.014023	9	0.087700
			9	0.009031	10	0.091977
			11	0.003942	11	0.097246
			12	0.001861	12	0.108676

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.180874		
			VAR COEFF	0.010255		
			EFFICIENCY	99.98		
						0.053514
						99.86
12	12	8	1	0.871644	2	0.119792
			2	0.042679	4	0.139710
			3	0.024316	6	0.155742
			4	0.022373	8	0.118644
			6	0.017999	9	0.087762
			8	0.011178	10	0.092111
			10	0.007336	11	0.097367
			12	0.002476	12	0.108817
			BIAS CORR	0.180526		
			VAR COEFF	0.010256		
			EFFICIENCY	99.97		
						0.053584
						99.72
12	12	7	1	0.871807	3	0.158411
			2	0.042673	5	0.148152
			3	0.032793	7	0.164015
			5	0.023991	9	0.122508
			7	0.014023	10	0.092206
			9	0.009026	11	0.097576
			11	0.005686	12	0.109031
			BIAS CORR	0.179365		
			VAR COEFF	0.010258		
			EFFICIENCY	99.96		
						0.053691
						99.53
12	12	6	1	0.872027	3	0.198795
			2	0.042687	6	0.187536
			3	0.032794	8	0.173316
			5	0.028467	10	0.126095
			8	0.017216	11	0.097883
			11	0.006809	12	0.109422
			BIAS CORR	0.178646		
			VAR COEFF	0.010261		
			EFFICIENCY	99.93		
						0.053885
						99.17
12	12	5	1	0.872428	4	0.242137
			2	0.055118	7	0.197146
			4	0.039561	9	0.185232
			7	0.021647	11	0.129146

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			10	0.011246	12	0.110135
			BIAS CORR	0.177009		
			VAR COEFF	0.010265		0.054249
			EFFICIENCY	99.88		98.50
12	12	4	1	0.873285	5	0.342466
			2	0.065072	9	0.246581
			5	0.042481	11	0.130832
			9	0.019162	12	0.111597
			BIAS CORR	0.174278		
			VAR COEFF	0.010276		0.054976
			EFFICIENCY	99.78		97.20
12	12	3	1	0.895587	6	0.400112
			3	0.067470	10	0.265653
			7	0.036943	12	0.137191
			BIAS CORR	0.168761		
			VAR COEFF	0.010293		0.056413
			EFFICIENCY	99.62		94.72
12	12	2	1	0.926863	8	0.553176
			5	0.073337	12	0.181628
			BIAS CORR	0.160364		
			VAR COEFF	0.010342		0.061227
			EFFICIENCY	99.15		87.28
12	12	1	1	1.000000	10	0.692061
			BIAS CORR	0.127580		
			VAR COEFF	0.010548		0.077961
			EFFICIENCY	97.21		68.54
12	11	11	1	0.871538	1	0.057185
			2	0.042671	2	0.064935
			3	0.024327	3	0.070674
			4	0.016120	4	0.075433
			5	0.011631	5	0.079710
			6	0.008801	6	0.083640
			7	0.006906	7	0.087514
			8	0.005500	8	0.091341
			9	0.004433	9	0.095457
			10	0.003590	10	0.099850



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			11	0.004523	11	0.217005
			BIAS CORR	0.179908		
			VAR COEFF	0.010255		0.058296
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.99		91.66
12	11	10	1	0.871574	2	0.094365
			2	0.042673	3	0.070675
			3	0.024325	4	0.075450
			4	0.016124	5	0.079729
			5	0.011627	6	0.083666
			6	0.008806	7	0.087538
			7	0.006901	8	0.091371
			8	0.008217	9	0.095487
			10	0.005231	10	0.099882
			11	0.004522	11	0.217074
			BIAS CORR	0.179756		
			VAR COEFF	0.010255		0.058315
			EFFICIENCY	100.00		99.97
12	11	9	1	0.871617	2	0.130444
			2	0.042672	4	0.109265
			3	0.024333	5	0.079738
			4	0.016113	6	0.083723
			5	0.011640	7	0.087556
			6	0.008792	8	0.091430
			7	0.010121	9	0.095522
			9	0.009026	10	0.099932
			11	0.005686	11	0.217177
			BIAS CORR	0.179562		
			VAR COEFF	0.010256		0.058343
			EFFICIENCY	99.99		99.92
12	11	8	1	0.871673	2	0.130520
			2	0.042672	4	0.152198
			3	0.024338	6	0.120175
			4	0.016107	7	0.087563
			5	0.016476	8	0.091539
			7	0.014022	9	0.095567
			9	0.009026	10	0.100018
			11	0.005686	11	0.217342

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.179466		
				0.010256		0.058388
				99.98		99.84
12	11	7	1	0.871807	2	0.130688
			2	0.042673	4	0.252398
			3	0.032793	6	0.169841
			5	0.023991	8	0.129316
			7	0.014023	9	0.095647
			9	0.009026	10	0.100176
			11	0.005886	11	0.217644
				BIAS CORR		
				0.179365		
				VAR COEFF		0.058472
				0.010258		99.70
				99.97		
12	11	6	1	0.872027	3	0.172840
			2	0.042687	5	0.161620
			3	0.032794	7	0.178848
			5	0.028467	9	0.133533
			8	0.017216	10	0.100296
			11	0.006809	11	0.218129
				BIAS CORR		
				0.178646		
				VAR COEFF		0.058599
				0.010261		99.48
				99.94		
12	11	5	1	0.872428	3	0.216973
			2	0.055118	6	0.204624
			4	0.039561	8	0.188995
			7	0.021647	10	0.137280
			10	0.011246	11	0.218936
				BIAS CORR		
				0.177089		
				VAR COEFF		0.058830
				0.010265		99.09
				99.90		
12	11	4	1	0.873285	4	0.264408
			2	0.065072	7	0.215185
			5	0.042481	9	0.201945
			9	0.019162	11	0.253832
				BIAS CORR		
				0.174278		
				VAR COEFF		0.059261
				0.010276		98.37
				99.80		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	0.895587	5	0.374358
			3	0.067470	9	0.269228
			7	0.036943	11	0.257484
			BIAS CORR	0.168761		
			VAR COEFF	0.010293		0.060128
			EFFICIENCY	99.63		96.95
12	11	2	1	0.926663	7	0.501168
			5	0.073337	11	0.321730
			BIAS CORR	0.160364		
			VAR COEFF	0.010342		0.062753
			EFFICIENCY	99.16		92.90
12	11	1	1	1.000000	10	0.692061
			BIAS CORR	0.127580		
			VAR COEFF	0.010548		0.077961
			EFFICIENCY	97.22		74.78
12	10	10	1	0.871733	1	0.062883
			2	0.042680	2	0.071416
			3	0.024331	3	0.077667
			4	0.016124	4	0.083009
			5	0.011630	5	0.087509
			6	0.008803	6	0.092015
			7	0.006903	7	0.096028
			8	0.005500	8	0.100449
			9	0.004425	9	0.104538
			10	0.007870	10	0.337762
			BIAS CORR	0.178051		
			VAR COEFF	0.010257		0.064133
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.96		83.32
12	10	9	1	0.871770	2	0.103783
			2	0.042683	3	0.077670
			3	0.024329	4	0.083030
			4	0.016128	5	0.087532
			5	0.011626	6	0.092047
			6	0.008808	7	0.096058
			7	0.006898	8	0.100485

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
12	10	8	8	0.008213	9	0.104574
			10	0.009547	10	0.337880
			BIAS CORR	0.177900		
			VAR COEFF	0.010257		0.064155
			EFFICIENCY	100.00		99.96
			1	0.871813	2	0.143440
			2	0.042686	4	0.120198
			3	0.024326	5	0.087546
			4	0.016134	6	0.092113
			5	0.011618	7	0.096081
12	10	7	6	0.012705	8	0.100554
			8	0.011172	9	0.104617
			10	0.009546	10	0.338061
			BIAS CORR	0.177796		
			VAR COEFF	0.010258		0.064189
			EFFICIENCY	99.99		99.91
			1	0.871892	2	0.143533
			2	0.042690	4	0.167348
			3	0.024322	6	0.132145
			4	0.022377	7	0.096096
12	10	6	5	0.018000	8	0.100681
			6	0.011172	9	0.104675
			10	0.009546	10	0.338352
			BIAS CORR	0.177700		
			VAR COEFF	0.010259		0.064244
			EFFICIENCY	99.98		99.83
			1	0.872073	2	0.143738
			2	0.042586	4	0.167591
			3	0.032800	6	0.186677
			5	0.023993	8	0.142160
12	10	5	7	0.017206	9	0.104776
			10	0.011242	10	0.338890
			BIAS CORR	0.177308		
			VAR COEFF	0.010261		0.064345
			EFFICIENCY	99.96		99.67
			1	0.872428	3	0.190150
			2	0.055118	5	0.177722

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
12	10	4	4	0.039561	7	0.196584
			7	0.021647	9	0.146484
			10	0.011246	10	0.339610
			BIAS CORR	0.177009		
			VAR COEFF	0.010265		0.064499
			EFFICIENCY	99.92		99.43
			1	0.873285	3	0.238745
			2	0.065072	6	0.225060
			5	0.042481	8	0.207657
			9	0.019162	10	0.381116
12	10	3	BIAS CORR	0.174278		
			VAR COEFF	0.010276		0.064776
			EFFICIENCY	99.82		99.01
			1	0.895587	5	0.340727
			3	0.067470	8	0.247268
			7	0.036963	10	0.384565
			BIAS CORR	0.168761		
			VAR COEFF	0.010293		0.065369
			EFFICIENCY	99.65		98.11
12	10	2	1	0.926663	6	0.475134
			5	0.073337	10	0.461311
			BIAS CORR	0.160364		
			VAR COEFF	0.010342		0.067101
			EFFICIENCY	99.18		95.58
12	10	1	1	1.000000	10	0.692061
			BIAS CORR	0.127580		
			VAR COEFF	0.010548		0.077961
			EFFICIENCY	97.24		82.26
12	9	9	1	0.872029	1	0.069849
			2	0.042692	2	0.079250
			3	0.024341	3	0.086384
			4	0.016122	4	0.091886
			5	0.011638	5	0.097419
			6	0.008796	6	0.101773
			7	0.006908	7	0.106855
			8	0.005487	8	0.110919

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
12	9	8	9	0.011987	9	0.476623
			BIAS CORR	0.175778		
			VAR COEFF	0.010261		0.071270
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.93		74.98
			1	0.872067	2	0.115206
			2	0.042692	3	0.086392
			3	0.024345	4	0.091913
			4	0.016117	5	0.097448
			5	0.011644	6	0.101812
12	9	7	6	0.008789	7	0.106891
			7	0.010116	8	0.110963
			8	0.014281	9	0.476808
			BIAS CORR	0.175680		
			VAR COEFF	0.010261		0.071298
			EFFICIENCY	100.00		99.96
			1	0.872123	2	0.159326
			2	0.042692	4	0.133262
			3	0.024349	5	0.097470
			4	0.016111	6	0.101892
12	9	6	5	0.016479	7	0.106924
			7	0.014016	8	0.111047
			8	0.014280	9	0.477076
			BIAS CORR	0.175583		
			VAR COEFF	0.010262		0.071340
			EFFICIENCY	99.99		99.90
			1	0.872287	2	0.159445
			2	0.042693	4	0.185774
			3	0.022887	6	0.146475
			5	0.023996	7	0.106951
12	9	5	7	0.014016	8	0.111198
			8	0.014281	9	0.477499
			BIAS CORR	0.175462		
			VAR COEFF	0.010263		0.071407
			EFFICIENCY	99.97		99.81
			1	0.872345	2	0.159701
			2	0.042693	4	0.186078

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	LOCATION		SCALE	
			i		i	
12	4	4	4	0.034004	6	0.201203
			6	0.021726	8	0.197389
			9	0.016847	9	0.478277
				0.179129		
				0.010867		0.071932
				94.46		94.63
				BIAS CORR		
12	4	4	1	0.073203	3	0.211233
			2	0.069077	6	0.197389
			3	0.047491	7	0.218048
			4	0.014167	9	0.525279
				0.174178		
				0.010278		0.071714
				94.89		94.37
12	4	3	1	0.049481	4	0.221146
			2	0.061476	7	0.261088
			3	0.036463	9	0.320098
				0.146781		
				0.010242		0.172110
				94.68		98.07
				BIAS CORR		
12	4	2	1	0.474663	9	0.488933
			2	0.171187	9	0.618666
				0.140984		
				0.010392		0.073244
				97.22		97.10
				BIAS CORR		
				0.000000		0.000217
12	4	1	1	1.000000	9	0.000484
				0.171306		0.000484
				0.014448		00.37
				97.28		
				BIAS CORR		
				0.012403		0.070440
				0.047714		0.084711
12	0	0	1	0.074347	2	0.076744
			2	0.016187	4	0.108716
			3	0.011436	6	0.108837
			4	0.008809	8	0.114081
			5	0.004809	9	0.124237
			7	0.004809	9	0.124237
			8	0.017090	9	0.640000

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 19)

SHAPE PARAMETER = 1.29

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAN CUEFF		
				EFFICIENCY		
				EFF(M/N)		
12	0	1	1	0.173064		
			2	0.010264		0.000196
			3	100.00		100.00
			4	99.00		66.63
			5			
			6			
			7			
			8			
			9			
			10			
			11			
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			99			
			100			



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

A	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.99
12	8	2	1	0.849987	2	0.297138
			2	0.067476	6	0.279769
			7	0.036943	8	0.697243
				BIAS CORR		
				0.168761		
				VAN CURT		0.080817
				EFFICIENCY		99.74
12	9	2	1	0.426663	9	0.424678
			2	0.073337	8	0.792114
				BIAS CORR		
				0.160264		
				VAN CURT		0.081734
				EFFICIENCY		98.17
12	9	1	1	1.000000	9	0.444401
				BIAS CORR		
				0.127986		
				VAN CURT		0.086864
				EFFICIENCY		97.37
12	7	7	1	0.873089	1	0.084647
			2	0.047724	2	0.101588
			3	0.024389	3	0.110836
			4	0.016124	4	0.117614
			5	0.011448	5	0.124901
			6	0.008789	6	0.130038
			7	0.007371	7	0.134122
				BIAS CORR		
				0.144883		
				VAN CURT		0.041674
				EFFICIENCY		100.00
				EFFIM/41		99.01
12	7	6	1	0.873281	7	0.147748
			2	0.047724	6	0.110838
			3	0.024389	5	0.117661
			4	0.016126	4	0.124957
			5	0.011448	3	0.130193
			6	0.007700	2	0.041616
				BIAS CORR		
				0.144787		
				VAN CURT		0.041726
				EFFICIENCY		99.49

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	LOCATION		SCALE	
			i		i	
12	7	5	1	0.873245	2	0.204409
			2	0.042739	4	0.170748
			3	0.092037	5	0.129001
			5	0.023994	6	0.130276
			7	0.027190	7	0.042234
			BIAS CORR		0.041744	
			VAN COEFF		44.67	
			EFFICIENCY		94.48	
12	7	4	1	0.873600	2	0.204613
			2	0.099193	4	0.238195
			4	0.039987	6	0.187491
			7	0.031638	7	0.043186
			BIAS CORR		0.041403	
			VAN COEFF		44.75	
			EFFICIENCY		94.44	
12	7	3	1	0.849887	3	0.270440
			3	0.067476	5	0.257337
			7	0.036443	7	0.403193
			BIAS CORR		0.042114	
			VAN COEFF		44.80	
			EFFICIENCY		94.80	
12	7	2	1	0.852223	2	0.411941
			2	0.073387	7	0.462874
			BIAS CORR		0.042768	
			VAN COEFF		49.83	
			EFFICIENCY		94.83	
12	7	1	1	1.000000	7	1.106178
			BIAS CORR		0.046912	
			VAN COEFF		44.44	
			EFFICIENCY		94.44	
12	6	6	1	0.813401	1	0.104336
			2	0.042779	2	0.118817
			3	0.024367	3	0.128469
			4	0.016144	4	0.137541
			5	0.011621	5	0.144740

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 19)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
12	6	5	6	0.031183	6	1.094687
			BIAS CORR	0.166090		
			VAR COEFF	0.010283		0.107000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.72		99.94
			1	0.073483	7	0.172297
			2	0.042777	8	0.128900
			3	0.024384	9	0.107698
			4	0.022349	9	0.144361
			5	0.036480	6	1.095215
12	6	4	BIAS CORR	0.169496		
			VAR COEFF	0.010284		0.107067
			EFFICIENCY	99.99		99.94
			1	0.074257	7	0.237447
			2	0.099218	8	0.194717
			3	0.036084	9	0.144433
			4	0.036486	6	1.096260
			BIAS CORR	0.148849		
			VAR COEFF	0.010287		0.107155
			EFFICIENCY	99.94		99.86
12	6	3	1	0.096007	7	0.238733
			2	0.061136	8	0.277163
			3	0.047863	6	1.163848
			BIAS CORR	0.163333		
			VAR COEFF	0.010246		0.107303
			EFFICIENCY	99.89		99.72
			1	0.026663	9	0.344447
			2	0.013337	6	1.230410
			BIAS CORR	0.160364		
			VAR COEFF	0.010347		0.107810
			EFFICIENCY	99.43		99.79
12	6	1	1	1.000000	6	1.425019
			BIAS CORR	0.177680		
			VAR COEFF	0.010848		0.110907
			EFFICIENCY	97.44		96.83

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 19)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
17	9	5	1	0.079130	1	0.124929
			2	0.042817	2	0.141909
			3	0.024399	3	0.154119
			4	0.016139	4	0.163609
			9	0.041920	9	1.430939
		BIAS CORR		0.161919		
				0.010297		0.128460
				100.00		100.00
				99.97		41.60
17	9	4	1	0.079264	2	0.209879
			2	0.042817	3	0.194174
			3	0.032864	4	0.163707
			9	0.044049	9	1.431406
		BIAS CORR		0.161417		
				0.010299		0.128997
				99.98		99.73
17	9	3	1	0.079384	2	0.204739
			2	0.042782	4	0.237609
			9	0.098844	9	1.433376
		BIAS CORR		0.141084		
				0.010307		0.128671
				99.91		99.83
17	9	2	1	0.079463	3	0.276749
			4	0.073357	9	1.513699
				0.140284		
				0.010342		0.124010
				99.67		99.96
		BIAS CORR				
17	9	1	1	1.000000	9	1.740311
				0.127900		
				0.010340		0.130977
				99.63		99.07
		BIAS CORR				
17	4	2	1	0.016497	1	0.109307
			2	0.042404	2	0.176744
			3	0.074404	3	0.140746
			4	0.085748	4	1.407337
				0.198071		
		BIAS CORR				

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.160709
				EFFICIENCY		100.00
				EFF(M/N)		33.25
12	4	3	1	0.877233	2	0.256356
			2	0.053350	3	0.191101
			4	0.067417	4	1.908920
				BIAS CORR		
				VAR COEFF		0.160847
				EFFICIENCY		99.91
12	4	2	1	0.413107	2	0.354193
			4	0.084843	4	2.002689
				BIAS CORR		
				VAR COEFF		0.161032
				EFFICIENCY		99.79
12	4	1	1	1.000000	4	2.167003
				BIAS CORR		
				VAR COEFF		0.162424
				EFFICIENCY		98.44
12	3	3	1	0.874887	1	0.709776
			2	0.047977	2	0.232734
			3	0.071144	3	2.692946
				BIAS CORR		
				VAR COEFF		0.214937
				EFFICIENCY		100.00
				EFF(M/N)		24.41
12	3	2	1	0.401631	2	0.338887
			3	0.048344	3	2.453800
				BIAS CORR		
				VAR COEFF		0.214780
				EFFICIENCY		99.89
12	3	1	1	1.000000	3	2.888734
				BIAS CORR		
				VAR COEFF		0.219613
				EFFICIENCY		99.30

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	0.884953	1	0.304218
			2	0.115047	2	4.039521
				BIAS CORR		
				0.140278		0.322495
				VAR COEFF		100.00
12	2	1		EFFICIENCY		16.57
				EFF(M/N)		
				98.49		
12	2	1	1	1.000000	2	4.702634
				0.127980		
				BIAS CORR		0.323025
				0.010948		99.84
				VAR COEFF		
12	1	1		EFFICIENCY		
				98.74		
12	1	1	1	1.000000	1	7.838700
				0.127980		
				BIAS CORR		0.648028
				0.010948		100.00
				VAR COEFF		8.29
12	1	1		EFFICIENCY		
				97.21		
12	12	12	1	0.864983	1	0.047663
			2	0.042203	2	0.094071
			3	0.024043	3	0.098789
			4	0.019434	4	0.062645
			5	0.011933	5	0.066147
			6	0.008730	6	0.064337
			7	0.006404	7	0.072344
			8	0.005321	8	0.078417
			9	0.004817	9	0.078613
			10	0.003886	10	0.081817
			11	0.002995	11	0.089998
			12	0.002168	12	0.090273
			13	0.001607	13	0.100604
				BIAS CORR		
				0.172417		0.044314
12	12	12		VAR COEFF		100.00
				0.009019		100.00
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		
12	12	12	1	0.864983	2	0.076784
			2	0.042203	3	0.098789
			3	0.024043	4	0.062704
			4	0.019434	5	0.066195
			5	0.011910	6	0.064339

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			6	0.008741	7	0.072404
			7	0.006894	8	0.075438
			8	0.008170	9	0.078528
			10	0.005530	10	0.081836
			11	0.002996	11	0.085577
			12	0.002368	12	0.090294
			13	0.001407	13	0.100627
			BIAS CORR	0.172317		
			VAR COEFF	0.009015		0.049331
			EFFICIENCY	100.00		99.98
13	13	11	1	0.870026	2	0.108904
			2	0.042200	4	0.091094
			3	0.024098	5	0.066148
			4	0.015913	6	0.069407
			5	0.011946	7	0.072364
			6	0.008704	8	0.075509
			7	0.010040	9	0.078972
			8	0.007140	10	0.081874
			11	0.004344	11	0.089601
			12	0.002368	12	0.090294
			13	0.001407	13	0.100660
			BIAS CORR	0.172204		
			VAR COEFF	0.009015		0.049347
			EFFICIENCY	99.99		99.94
13	13	10	1	0.870067	2	0.108942
			2	0.042213	4	0.126239
			3	0.024027	6	0.100113
			4	0.015961	7	0.072334
			5	0.011493	8	0.078627
			6	0.012934	9	0.078484
			8	0.011719	10	0.081466
			10	0.007917	11	0.089679
			12	0.003344	12	0.090374
			13	0.001606	13	0.100711
			BIAS CORR	0.172091		
			VAR COEFF	0.009016		0.049372
			EFFICIENCY	99.99		99.84
13	13	9	1	0.870123	2	0.108670

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			2	0.042200	4	0.126345
			3	0.024067	6	0.140196
			4	0.015904	8	0.107731
			5	0.016264	9	0.078463
			7	0.013987	10	0.087088
			9	0.009139	11	0.085675
			11	0.006107	12	0.090457
			13	0.002129	13	0.100798
			BIAS CORR	0.171761		
			VAR COEFF	0.009016		0.049415
			EFFICIENCY	99.98		99.81
13	13	0	1	0.870226	3	0.143743
			2	0.042223	5	0.123641
			3	0.024023	7	0.147000
			4	0.022063	9	0.111226
			6	0.017880	10	0.081927
			8	0.011213	11	0.085845
			10	0.007909	12	0.090933
			12	0.004897	13	0.100935
			BIAS CORR	0.170768		
			VAR COEFF	0.009018		0.049487
			EFFICIENCY	99.97		99.67
13	13	9	1	0.870384	3	0.174314
			2	0.042211	4	0.144356
			3	0.022886	8	0.194140
			9	0.023777	10	0.114317
			7	0.017057	11	0.085949
			10	0.009402	12	0.090783
			12	0.004898	13	0.101187
			BIAS CORR	0.170380		
			VAR COEFF	0.009014		0.049343
			EFFICIENCY	99.99		99.49
13	13	6	1	0.870639	4	0.217938
			2	0.042281	7	0.177129
			3	0.022384	9	0.162436
			9	0.020110	11	0.117948
			8	0.017206	12	0.091076
			11	0.009490	13	0.101941



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	K	L	I	LOCATION	I	SCALE	
				BIAS CORR	0.168763		
				VAR COEFF	0.009022	0.049782	
				EFFICIENCY	99.92	99.07	
13	13	5	1	0.071013	5	0.256901	
			2	0.054416	8	0.105547	
			4	0.039048	10	0.173265	
			7	0.024606	12	0.120262	
			11	0.010916	13	0.102280	
			BIAS CORR	0.168214			
			VAR COEFF	0.009026		0.050157	
			EFFICIENCY	99.88		98.33	
		4	1	0.071926	6	0.390132	
			2	0.064124	10	0.230834	
			5	0.049872	12	0.121929	
			10	0.018078	13	0.103719	
				BIAS CORR	0.165698		
	VAR COEFF	0.009039		0.090869			
	EFFICIENCY	99.77		96.99			
13	13	3	1	0.043870	7	0.402271	
			3	0.072041	11	0.248227	
			8	0.034088	13	0.127985	
			BIAS CORR	0.161190			
			VAR COEFF	0.009081		0.092228	
			EFFICIENCY	99.60		94.43	
		2	1	0.024397	9	0.941835	
			5	0.079603	13	0.169260	
				BIAS CORR	0.190788		
				VAR COEFF	0.009099		0.096807
				EFFICIENCY	99.12		86.82
13	13	1	1	1.000000	11	0.666138	
				BIAS CORR	0.119467		
				VAR COEFF	0.009280		0.072293
				EFFICIENCY	97.14		68.27
17	12	12	1	0.870089	1	0.091129	
			2	0.042208	2	0.098969	

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 12 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.024046	3	0.033668
			4	0.015935	4	0.067920
			5	0.011924	5	0.071606
			6	0.008731	6	0.075124
			7	0.006903	7	0.078349
			8	0.005521	8	0.081668
			9	0.004515	9	0.084938
			10	0.003889	10	0.088542
			11	0.002994	11	0.092387
			12	0.002078	12	0.200223
				BIAS CORR		
				0.171203		
				VAR COEFF		0.053430
				EFFICIENCY		100.00
				EFF(M/N)		92.31
13	12	11	1	0.070086	2	0.085306
			2	0.042212	3	0.063665
			3	0.024039	4	0.067931
			4	0.015947	5	0.071616
			5	0.011511	6	0.075145
			6	0.008747	7	0.078362
				0.006894	8	0.081691
			8	0.005169	9	0.084956
			10	0.003529	10	0.088565
			11	0.002997	11	0.092410
			12	0.002079	12	0.200273
				BIAS CORR		
				0.171108		
				VAR COEFF		0.053474
				EFFICIENCY		99.98
13	12	10	1	0.070119	2	0.117530
			2	0.042209	4	0.098681
			3	0.024060	5	0.071610
			4	0.015919	6	0.075203
			5	0.011547	7	0.078342
			6	0.008710	8	0.081766
			7	0.010040	9	0.084931
			9	0.009138	10	0.088613
			11	0.004389	11	0.092437
			12	0.003877	12	0.200346
				BIAS CORR		
				0.170996		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.009016 99.99		0.053463 99.94
13	12	9	1	0.870155	2	0.117575
			2	0.042220	4	0.136730
			3	0.024030	6	0.108449
			4	0.015963	7	0.078246
			5	0.011494	8	0.081902
			6	0.012560	9	0.084914
			8	0.011214	10	0.088712
			10	0.007508	11	0.092468
			12	0.004857	12	0.200460
				BIAS CORR VAR COEFF EFFICIENCY		
				0.170842 0.009017 99.99		0.053493 99.88
13	12	8	1	0.870226	2	0.117668
			2	0.042225	4	0.136858
			3	0.024025	6	0.151844
			4	0.022063	8	0.116658
			6	0.017880	9	0.084898
			8	0.011215	10	0.088850
			10	0.007509	11	0.092528
			12	0.004857	12	0.200652
				BIAS CORR VAR COEFF EFFICIENCY		
				0.170768 0.009018 99.98		0.053543 99.79
13	12	7	1	0.870384	3	0.155736
			2	0.042211	5	0.144768
			3	0.032336	7	0.159200
			5	0.023772	9	0.120395
			7	0.017037	10	0.088680
			10	0.009402	11	0.092777
			12	0.004858	12	0.200918
				BIAS CORR VAR COEFF EFFICIENCY		
				0.170500 0.009019 99.96		0.053621 99.64
13	12	6	1	0.870629	3	0.194247
			2	0.042281	6	0.183484

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.032334	8	0.166976
			5	0.028110	10	0.123975
			8	0.017206	11	0.092851
			11	0.009490	12	0.201431
		BIAS CORR		0.168793		
		VAR COEFF		0.009022		0.053752
		EFFICIENCY		99.93		99.40
12	12	5	1	0.871023	4	0.236227
			2	0.054416	7	0.191925
			4	0.039048	9	0.175917
			7	0.024606	11	0.127157
			11	0.010916	12	0.202203
		BIAS CORR		0.168214		
		VAR COEFF		0.009026		0.053973
		EFFICIENCY		99.89		98.99
13	12	4	1	0.871926	5	0.278682
			2	0.064124	8	0.201134
			5	0.045872	10	0.187614
			10	0.018078	12	0.234639
		BIAS CORR		0.165698		
		VAR COEFF		0.009035		0.054412
		EFFICIENCY		99.78		98.20
12	12	3	1	0.893870	6	0.300098
			3	0.072041	10	0.250307
			8	0.034088	12	0.238189
		BIAS CORR		0.161180		
		VAR COEFF		0.009051		0.055249
		EFFICIENCY		99.61		96.71
13	12	2	1	0.924397	8	0.494232
			5	0.075603	12	0.298503
		BIAS CORR		0.150758		
		VAR COEFF		0.009095		0.057831
		EFFICIENCY		99.13		92.39
13	12	1	1	1.000000	11	0.666138
		BIAS CORR		0.119667		
		VAR COEFF		0.009280		0.072293

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		73.91
13	11	11	1	0.870220	1	0.054314
			2	0.042215	2	0.063858
			3	0.024051	3	0.069498
			4	0.015935	4	0.072916
			5	0.011529	5	0.078301
			6	0.008727	6	0.081645
			7	0.006907	7	0.085594
			8	0.005517	8	0.088817
			9	0.004517	9	0.092696
			10	0.003678	10	0.096148
			11	0.006705	11	0.309723
				BIAS CORR		
				VAR COEFF		0.054293
				EFFICIENCY		100.00
				EFF(M/N)		84.61
13	11	10	1	0.870248	2	0.093023
			2	0.042215	3	0.069497
			3	0.024056	4	0.073930
			4	0.015927	5	0.078314
			5	0.011539	6	0.081670
			6	0.008718	7	0.085610
			7	0.006914	8	0.088845
			8	0.005510	9	0.092718
			9	0.006777	10	0.096175
			11	0.008096	11	0.309807
				BIAS CORR		
				VAR COEFF		0.058309
				EFFICIENCY		99.97
13	11	9	1	0.870280	2	0.128202
			2	0.042212	4	0.107501
			3	0.024085	5	0.078310
			4	0.015915	6	0.081735
			5	0.011552	7	0.085591
			6	0.008706	8	0.088929
			7	0.010041	9	0.092715
			9	0.009133	10	0.096231
			11	0.008095	11	0.309924

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.169411		
			VAR COEFF	0.009018		0.058332
			EFFICIENCY	99.99		99.93
13	11	8	1	0.870330	2	0.128258
			2	0.042210	4	0.149117
			3	0.024072	6	0.118099
			4	0.015906	7	0.085545
			5	0.016267	8	0.089082
			7	0.013986	9	0.092679
			9	0.009134	10	0.096343
			11	0.008095	11	0.310092
			BIAS CORR	0.169340		
			VAR COEFF	0.009019		0.058367
			EFFICIENCY	99.99		99.87
13	11	7	1	0.870440	2	0.128371
			2	0.042233	4	0.149270
			3	0.024034	6	0.165525
			4	0.022064	8	0.127067
			6	0.017879	9	0.092670
			8	0.013864	10	0.096503
			11	0.009486	11	0.310385
			BIAS CORR	0.169022		
			VAR COEFF	0.009020		0.058427
			EFFICIENCY	99.97		99.77
13	11	6	1	0.870629	3	0.169869
			2	0.042231	5	0.157912
			3	0.032834	7	0.173552
			5	0.028110	9	0.131298
			8	0.017206	10	0.096327
			11	0.009490	11	0.310968
			BIAS CORR	0.168793		
			VAR COEFF	0.009022		0.058519
			EFFICIENCY	99.95		99.61
13	11	5	1	0.871013	3	0.212037
			2	0.054416	6	0.200095
			4	0.039048	8	0.182055
			7	0.024606	10	0.134889

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

A	M	L	I	LOCATION	I	SCALE
			11	0.010916	11	0.311661
			BIAS CORR	0.168214		
			VAR COEFF	0.009026		0.058675
			EFFICIENCY	99.91		99.35
13	11	4	1	0.871926	4	0.257774
			2	0.064124	7	0.209387
			5	0.045872	9	0.191720
			10	0.018078	11	0.349857
			BIAS CORR	0.165698		
			VAR COEFF	0.009035		0.058936
			EFFICIENCY	99.80		98.91
13	11	3	1	0.893870	5	0.360713
			3	0.072041	9	0.260489
			8	0.034088	11	0.253519
			BIAS CORR	0.161130		
			VAR COEFF	0.009051		0.059565
			EFFICIENCY	99.63		97.86
13	11	2	1	0.924397	7	0.471154
			5	0.075603	11	0.424943
			BIAS CORR	0.150758		
			VAR COEFF	0.009095		0.061261
			EFFICIENCY	99.15		95.15
13	11	1	1	1.000000	11	0.666138
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.072293
			EFFICIENCY	97.17		80.63
13	10	10	1	0.870459	1	0.061907
			2	0.042227	2	0.070301
			3	0.024051	3	0.076132
			4	0.015949	4	0.081802
			5	0.011516	5	0.085312
			6	0.008741	6	0.090423
			7	0.006895	7	0.093461
			8	0.005524	8	0.098033
			9	0.004504	9	0.101251
			10	0.010183	10	0.433680

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE		
				BIAS CORR	0.167596			
				VAR COEFF	0.009020	0.064130		
				EFFICIENCY	100.00	100.00		
				EFF(M/N)	99.94	76.91		
13	10	9	1	0.870486	2	0.102366		
			2	0.042232	3	0.076132		
			3	0.024044	4	0.081820		
			4	0.015961	5	0.085328		
			5	0.011503	6	0.090452		
			6	0.008753	7	0.093480		
			7	0.006885	8	0.098067		
			8	0.008166	9	0.101278		
			10	0.011970	10	0.433810		
						BIAS CORR	0.167600	
			VAR COEFF	0.009020	0.064149			
			EFFICIENCY	100.00	99.97			
13	10	8	1	0.870522	2	0.140909		
			2	0.042237	4	0.118600		
			3	0.024036	3	0.085327		
			4	0.015972	6	0.090528		
			5	0.011491	7	0.093463		
			6	0.012562	8	0.098163		
			8	0.011208	9	0.101279		
			10	0.011970	10	0.434010		
						BIAS CORR	0.167524	
						VAR COEFF	0.009021	0.064177
			EFFICIENCY	99.99	99.93			
13	10	7	1	0.870594	2	0.140978		
			2	0.042242	4	0.163954		
			3	0.024031	6	0.130156		
			4	0.022071	7	0.093418		
			6	0.017881	8	0.098335		
			8	0.011210	9	0.101244		
			10	0.011970	10	0.434332		
						BIAS CORR	0.167450	
						VAR COEFF	0.009021	0.064219
						EFFICIENCY	99.98	99.86



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
13	10	6	1	0.870752	2	0.241115
			2	0.042229	4	0.164136
			3	0.032347	6	0.141965
			5	0.023776	8	0.133829
			7	0.017032	9	0.121243
			10	0.013864	10	0.434855
			BIAS CORR	0.167182		
			VAR COEFF	0.009023		0.064291
			EFFICIENCY	99.97		99.75
13	10	5	1	0.871079	3	0.186899
			2	0.054419	5	0.173520
			4	0.039059	7	0.190760
			7	0.021570	9	0.143915
			10	0.013872	10	0.435375
			BIAS CORR	0.166951		
			VAR COEFF	0.009026		0.064406
			EFFICIENCY	99.93		99.57
13	10	4	1	0.871926	3	0.233130
			2	0.064124	6	0.220103
			5	0.045872	8	0.199988
			10	0.018078	10	0.478338
			BIAS CORR	0.165698		
			VAR COEFF	0.009035		0.064590
			EFFICIENCY	99.83		99.29
13	10	3	1	0.893870	5	0.332668
			3	0.072041	8	0.239855
			8	0.034088	10	0.481767
			BIAS CORR	0.161130		
			VAR COEFF	0.009051		0.065061
			EFFICIENCY	99.66		98.57
13	10	2	1	0.924397	6	0.454923
			5	0.075603	10	0.562047
			BIAS CORR	0.150758		
			VAR COEFF	0.009095		0.066256
			EFFICIENCY	99.18		96.79
13	10	1	1	1.000000	10	0.795213

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.073755
			EFFICIENCY	97.20		86.95
13	9	9	1	0.870797	1	0.068797
			2	0.042287	2	0.077811
			3	0.024073	3	0.085208
			4	0.015928	4	0.089596
			5	0.011547	5	0.096079
			6	0.008715	6	0.099074
			7	0.006914	7	0.104674
			8	0.005503	8	0.107818
			9	0.014285	9	0.577459
			BIAS CORR	0.165420		
			VAR COEFF	0.009023		0.071268
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.90		69.20
			1	0.870829	2	0.113449
			2	0.042234	3	0.085212
			3	0.024082	4	0.089618
			4	0.015915	5	0.096100
			5	0.011560	6	0.099110
			6	0.008703	7	0.104699
			7	0.010038	8	0.107858
			9	0.016637	9	0.577647
			BIAS CORR	0.165338		
			VAR COEFF	0.009024		0.071292
			EFFICIENCY	100.00		99.97
13	9	7	1	0.870879	2	0.156597
			2	0.042233	4	0.130791
			3	0.024090	5	0.096104
			4	0.015906	6	0.099199
			5	0.016273	7	0.104686
			6	0.013982	8	0.107971
			7	0.016838	9	0.577894
			BIAS CORR	0.165267		
			VAR COEFF	0.009024		0.071326
			EFFICIENCY	99.99		99.92

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
13	9	6	1	0.871002	2	0.156688
			2	0.042283	4	0.181889
			3	0.032356	6	0.143844
			5	0.023785	7	0.104645
			7	0.013982	8	0.108173
			9	0.016641	9	0.578254
			BIAS CORR	0.165188		
			VAR COEFF	0.009026		0.071380
			EFFICIENCY	99.98		99.84
13	9	5	1	0.871264	2	0.156862
			2	0.054436	4	0.182117
			4	0.033672	6	0.201905
			6	0.021465	8	0.154674
			9	0.019163	9	0.578896
			BIAS CORR	0.164941		
			VAR COEFF	0.009028		0.071470
			EFFICIENCY	99.95		99.72
13	9	4	1	0.871936	3	0.207497
			2	0.064120	5	0.192797
			5	0.042007	7	0.211606
			9	0.021937	9	0.626451
			BIAS CORR	0.164308		
			VAR COEFF	0.009035		0.071602
			EFFICIENCY	99.87		99.53
13	9	3	1	0.893870	4	0.313883
			3	0.072041	7	0.254753
			8	0.034088	9	0.629175
			BIAS CORR	0.161130		
			VAR COEFF	0.009051		0.071922
			EFFICIENCY	99.70		99.09
13	9	2	1	0.924397	5	0.440138
			5	0.075603	9	0.718586
			BIAS CORR	0.150758		
			VAR COEFF	0.009095		0.072855
			EFFICIENCY	99.22		97.82
13	9	1	1	1.000000	9	0.937702

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
13	8	8		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
						0.078216
						91.12
			1	0.071262	1	0.077226
			2	0.042268	2	0.087916
			3	0.024058	3	0.094612
			4	0.015970	4	0.102345
			5	0.011509	5	0.106100
			6	0.008749	6	0.112795
			7	0.006883	7	0.116208
			8	0.019301	8	0.748485
		7		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
13	8	7				0.080194
						100.00
						61.50
			1	0.071298	2	0.127924
			2	0.042273	3	0.094620
			3	0.024050	4	0.102374
			4	0.015981	5	0.106128
			5	0.011497	6	0.112840
			6	0.012557	7	0.116241
			8	0.022342	8	0.748765
		6		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
						0.080224
13	8	6				99.96
			1	0.071370	2	0.175845
			2	0.042279	4	0.148101
			3	0.024045	5	0.106137
			4	0.022083	6	0.112946
			6	0.017879	7	0.116232
			3	0.022344	8	0.749194
		5		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
						0.080267
13	8	5	1	0.071559	2	0.175959
			2	0.042277	4	0.204549
			3	0.032359	6	0.162264

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
13	8	4	3	0.028114	7	0.116194
			8	0.025692	8	0.749859
			BIAS CORR	0.162775		
			VAR COEFF	0.009031		0.080332
			EFFICIENCY	99.77		99.83
			1	0.872040	2	0.176176
			2	0.054469	4	0.204830
			4	0.043971	6	0.226764
			6	0.029921	8	0.802289
			BIAS CORR	0.161918		
13	8	3	1	0.843870	3	0.290450
			3	0.072041	6	0.273911
			8	0.034088	8	0.804550
			BIAS CORR	0.161130		
			VAR COEFF	0.009091		0.080677
			EFFICIENCY	99.75		99.40
			1	0.924397	5	0.414987
			5	0.079603	8	0.859615
			BIAS CORR	0.150758		
			VAR COEFF	0.009095		0.081409
13	8	2	1	0.924397	5	0.414987
			5	0.079603	8	0.859615
			BIAS CORR	0.150758		
			VAR COEFF	0.009095		0.081409
			EFFICIENCY	99.27		98.51
			1	1.000000	8	1.102923
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.085330
			EFFICIENCY	97.29		93.98
			1	0.871908	1	0.088305
13	7	7	2	0.042281	2	0.099712
			3	0.024100	3	0.109708
			4	0.015436	4	0.114941
			5	0.011580	5	0.122736
			6	0.008712	6	0.127036
			7	0.029913	7	0.457909
			BIAS CORR	0.159643		
			VAR COEFF	0.009095		0.091677

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		53.80
13	7	5	1	0.071957	2	0.145468
			2	0.042279	3	0.109223
			3	0.024107	4	0.115031
			4	0.015927	5	0.122775
			5	0.016268	6	0.127094
			7	0.029461	7	0.958306
				BIAS CORR		
				VAR COEFF		0.091716
				EFFICIENCY		99.96
13	7	5	1	0.072081	2	0.200801
			2	0.042280	4	0.167828
			3	0.032385	5	0.122796
			5	0.023789	6	0.127225
			7	0.029465	7	0.958852
				BIAS CORR		
				VAR COEFF		0.091773
				EFFICIENCY		99.90
13	7	4	1	0.072410	2	0.200958
			2	0.054492	4	0.233164
			4	0.039081	6	0.184307
			7	0.034016	7	0.959674
				BIAS CORR		
				VAR COEFF		0.091860
				EFFICIENCY		99.80
13	7	3	1	0.093964	3	0.265843
			3	0.066539	5	0.246579
			7	0.039497	7	1.019275
				BIAS CORR		
				VAR COEFF		0.092026
				EFFICIENCY		99.62
13	7	2	1	0.024397	4	0.402449
			5	0.075603	7	1.078934
				BIAS CORR		
				VAR COEFF		0.092549

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.34
						99.06
13	7	1	1	1.000000	7	1.301242
				BIAS CORR		0.095503
				VAR COEFF		95.99
				EFFICIENCY		
13	6	6	1	0.872798	1	0.102654
			2	0.042331	2	0.116644
			3	0.024091	3	0.125982
			4	0.015976	4	0.135212
			5	0.011517	5	0.141258
			6	0.033288	6	1.223698
				BIAS CORR		0.106998
				VAR COEFF		100.00
				EFFICIENCY		46.09
				EFF(M/N)		
13	6	5	1	0.872870	2	0.169847
			2	0.042336	3	0.126007
			3	0.024086	4	0.135268
			4	0.022088	5	0.141312
			6	0.038621	6	1.224294
				BIAS CORR		0.107051
				VAR COEFF		99.95
				EFFICIENCY		
13	6	4	1	0.873129	2	0.233705
			2	0.054532	4	0.196197
			4	0.033712	5	0.141349
			6	0.038628	6	1.225167
				BIAS CORR		0.107127
				VAR COEFF		99.88
				EFFICIENCY		
13	6	3	1	0.894471	2	0.233918
			3	0.060433	4	0.271443
			6	0.045096	6	1.291965
				BIAS CORR		0.107242
				VAR COEFF		99.77
				EFFICIENCY		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	0.924397	3	0.385787
			5	0.075603	6	1.358376
			BIAS CORR	0.150758		
			VAR COEFF	0.009095		0.107652
			EFFICIENCY	99.45		99.39
13	6	1	1	1.000000	6	1.551511
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.109831
			EFFICIENCY	97.46		97.42
13	5	5	1	0.874070	1	0.122967
			2	0.042371	2	0.139057
			3	0.024131	3	0.151465
			4	0.015956	4	0.160453
			5	0.043472	5	1.577206
			BIAS CORR	0.151666		
			VAR COEFF	0.009058		0.128467
			EFFICIENCY	100.00		100.00
13	5	4	EFF(M/N)	99.53		38.39
			1	0.874195	2	0.202807
			2	0.042371	3	0.151511
			3	0.032423	4	0.160535
			5	0.051011	5	1.578108
			BIAS CORR	0.151586		
			VAR COEFF	0.009059		0.128543
			EFFICIENCY	99.99		99.94
13	5	3	1	0.874824	2	0.279629
			2	0.064288	4	0.233828
			5	0.060888	5	1.579386
			BIAS CORR	0.151320		
			VAR COEFF	0.009066		0.128652
13	5	2	EFFICIENCY	99.91		99.86
			1	0.924307	3	0.369860
			5	0.075603	5	1.658775
			BIAS CORR	0.150758		
13	5	2	VAR COEFF	0.009095		0.128932



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.59
						99.64
13	5	1	1	1.000000	5	1.883565
				BIAS CORR		0.119667
				VAR COEFF		0.009280
				EFFICIENCY		97.60
13	4	4	1	0.875943	1	0.152897
			2	0.042448	2	0.173297
			3	0.024141	3	0.187564
			4	0.057468	4	2.079149
				BIAS CORR		0.146453
				VAR COEFF		0.009077
				EFFICIENCY		100.00
				EFF(M/N)		99.31
13	4	3	1	0.876203	2	0.252598
			2	0.054671	3	0.187646
			4	0.069125	4	2.080615
				BIAS CORR		0.146363
				VAR COEFF		0.009080
				EFFICIENCY		99.97
13	4	2	1	0.913307	2	0.347810
			4	0.086693	4	2.173332
				BIAS CORR		0.146094
				VAR COEFF		0.009099
				EFFICIENCY		99.76
13	4	1	1	1.000000	4	2.355666
				BIAS CORR		0.119667
				VAR COEFF		0.009280
				EFFICIENCY		97.82
13	3	3	1	0.878891	1	0.202432
			2	0.042539	2	0.228786
			3	0.078569	3	2.886269
				BIAS CORR		0.139993
				VAR COEFF		0.009108
				EFFICIENCY		100.00
				EFF(M/N)		98.98

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
13	3	2	1	0.900278	2	0.333855
			3	0.099722	3	2.868879
			BIAS CORR	0.139911		
			VAR COEFF	0.009117		0.214742
			EFFICIENCY	99.91		99.90
13	3	1	1	1.000000	3	3.099134
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.215439
			EFFICIENCY	98.15		99.58
13	2	2	1	0.884038	1	0.294313
			2	0.115962	2	4.332595
			BIAS CORR	0.131596		
			VAR COEFF	0.009162		0.322494
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.39		15.29
13	2	1	1	1.000000	2	4.493545
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.322943
			EFFICIENCY	98.73		99.86
13	1	1	1	1.000000	1	8.356531
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.648028
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.14		7.61

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
11	11	11	1	0.731105	1	0.041762
			2	0.074371	2	0.052621
			3	0.047131	3	0.061101
			4	0.034113	4	0.068513
			5	0.026554	5	0.075423
			6	0.021523	6	0.082174
			7	0.017963	7	0.089062
			8	0.015181	8	0.096427
			9	0.012907	9	0.104827
			10	0.010841	10	0.115545
			11	0.008312	11	0.139465
			BIAS CORR	0.315770		
			VAR COEFF	0.013845		0.040642
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
11	11	10	1	0.731286	2	0.075876
			2	0.074382	3	0.061092
			3	0.047153	4	0.068525
			4	0.034100	5	0.075439
			5	0.026572	6	0.082203
			6	0.021514	7	0.089088
			7	0.026945	8	0.096462
			9	0.018899	9	0.104863
			10	0.010838	10	0.115586
			11	0.008312	11	0.139515
			BIAS CORR	0.315314		
			VAR COEFF	0.013849		0.040657
			EFFICIENCY	99.98		99.96
11	11	9	1	0.731491	2	0.105553
			2	0.074392	4	0.098797
			3	0.047175	5	0.075451
			4	0.034091	6	0.082268
			5	0.038260	7	0.089102
			7	0.036538	8	0.096537
			9	0.018902	9	0.104912
			10	0.010837	10	0.115654
			11	0.008314	11	0.139596
			BIAS CORR	0.315036		
			VAR COEFF	0.013853		0.040681

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				99.95		99.91
				EFFICIENCY		
11	11	8	1	0.731752	2	0.105624
			2	0.074444	4	0.138546
			3	0.047130	6	0.117285
			4	0.048109	7	0.089139
			6	0.043933	8	0.096662
			8	0.031037	9	0.104988
			10	0.015284	10	0.115774
			11	0.008311	11	0.139734
			BIAS CORR	0.314486		
			VAR COEFF	0.013858		0.040722
			EFFICIENCY	99.91		99.81
11	11	7	1	0.732197	3	0.148486
			2	0.074446	5	0.153203
			3	0.064535	7	0.126170
			5	0.054585	8	0.096684
			7	0.036549	9	0.105248
			9	0.026789	10	0.115959
			11	0.010899	11	0.139992
			BIAS CORR	0.313413		
			VAR COEFF	0.013866		0.040797
			EFFICIENCY	99.85		99.62
11	11	6	1	0.733120	3	0.148960
			2	0.097485	5	0.153683
			4	0.071514	7	0.183912
			6	0.054138	9	0.143874
			9	0.032835	10	0.116317
			11	0.010907	11	0.140453
			BIAS CORR	0.312379		
			VAR COEFF	0.013884		0.040936
			EFFICIENCY	99.72		99.28
11	11	5	1	0.734239	4	0.239248
			2	0.097611	7	0.218239
			4	0.084500	9	0.144631
			7	0.056641	10	0.116983
			10	0.027009	11	0.141249
			BIAS CORR	0.307143		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.041170
				EFFICIENCY		98.72
11	11	4	1	0.770483	5	0.294286
			3	0.118982	8	0.239774
			6	0.068569	10	0.155200
			9	0.041966	11	0.142812
				BIAS CORR		
				VAR COEFF		0.041641
				EFFICIENCY		97.60
11	11	3	1	0.775428	6	0.356503
			3	0.133686	9	0.272231
			7	0.090886	11	0.175392
				BIAS CORR		
				VAR COEFF		0.042729
				EFFICIENCY		95.12
11	11	2	1	0.834498	8	0.511991
			5	0.165502	11	0.211846
				BIAS CORR		
				VAR COEFF		0.046019
				EFFICIENCY		88.32
11	11	1	1	1.000000	9	0.767480
				BIAS CORR		
				VAR COEFF		0.058888
				EFFICIENCY		69.02
11	10	10	1	0.731799	1	0.045925
			2	0.074440	2	0.057867
			3	0.047173	3	0.067164
			4	0.034144	4	0.075346
			5	0.026572	5	0.082851
			6	0.021539	6	0.090320
			7	0.017968	7	0.097764
			8	0.015178	8	0.105777
			9	0.012886	9	0.114720
			10	0.018301	10	0.264494
				BIAS CORR		
				VAR COEFF		0.044712

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		90.90
11	10	9	1	0.731979	2	0.083442
			2	0.074451	3	0.067157
			3	0.047195	4	0.075362
			4	0.034131	5	0.082871
			5	0.026590	6	0.090355
			6	0.021529	7	0.097796
			7	0.026949	8	0.105819
			9	0.018878	9	0.114764
			10	0.018297	10	0.264598
			BIAS CORR	0.310182		
			VAR COEFF	0.013862		0.044730
			EFFICIENCY	99.98		99.96
11	10	8	1	0.732185	2	0.116073
			2	0.074461	4	0.108646
			3	0.047216	5	0.082889
			4	0.034122	6	0.090432
			5	0.038287	7	0.097817
			7	0.036549	8	0.105908
			9	0.018881	9	0.114825
			10	0.018298	10	0.264768
			BIAS CORR	0.309904		
			VAR COEFF	0.013866		0.044759
			EFFICIENCY	99.95		99.90
11	10	7	1	0.732446	2	0.116162
			2	0.074513	4	0.152328
			3	0.047171	6	0.128913
			4	0.048149	7	0.097867
			6	0.043961	8	0.106055
			8	0.031024	9	0.114919
			10	0.022736	10	0.265062
			BIAS CORR	0.309357		
			VAR COEFF	0.013871		0.044808
			EFFICIENCY	99.91		99.79
11	10	6	1	0.733177	3	0.163323
			2	0.074543	5	0.168423

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
11	10	5	3	0.064611	7	0.138601
			5	0.054629	8	0.106098
			7	0.046063	9	0.115225
			10	0.026977	10	0.265568
			BIAS CORR	0.307844		
			VAR COEFF	0.013885		0.044899
			EFFICIENCY	99.81		99.58
			1	0.734239	3	0.163897
			2	0.097611	5	0.169005
			4	0.084500	7	0.202032
11	10	4	7	0.056641	9	0.157662
			10	0.027009	10	0.266503
			BIAS CORR	0.307143		
			VAR COEFF	0.013906		0.045067
			EFFICIENCY	99.66		99.21
			1	0.770483	4	0.263331
			3	0.118982	7	0.239908
			6	0.068569	9	0.158581
			9	0.041966	10	0.268171
			BIAS CORR	0.301821		
11	10	3	VAR COEFF	0.013957		0.045351
			EFFICIENCY	99.29		98.59
			1	0.775428	5	0.324169
			3	0.133686	8	0.263550
			7	0.090886	10	0.311938
			BIAS CORR	0.285112		
			VAR COEFF	0.014048		0.045919
			EFFICIENCY	98.65		97.37
			1	0.834498	6	0.485283
			5	0.165502	10	0.388444
11	10	2	BIAS CORR	0.263548		
			VAR COEFF	0.014286		0.047822
			EFFICIENCY	97.01		93.50
			1	1.000000	9	0.767480
			BIAS CORR	0.182517		
			VAR COEFF	0.015357		0.058888

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				90.24		75.93
				EFFICIENCY		
11	9	9	1	0.732933	1	0.051012
			2	0.074550	2	0.064225
			3	0.047247	3	0.074667
			4	0.034177	4	0.083441
			5	0.026616	5	0.097135
			6	0.021545	6	0.093959
			7	0.017978	7	0.108371
			8	0.015161	8	0.116909
			9	0.029794	9	0.398394
				BIAS CORR		
				0.304167		
				VAR COEFF		0.049700
				0.013880		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		81.78
				99.75		
11	9	8	1	0.733113	2	0.092637
			2	0.074561	3	0.074662
			3	0.047269	4	0.083462
			4	0.034164	5	0.092111
			5	0.026634	6	0.100003
			6	0.021536	7	0.108411
			7	0.026948	8	0.116961
			9	0.035776	9	0.390560
				BIAS CORR		
				0.303714		
				VAR COEFF		0.049721
				0.013883		
				EFFICIENCY		99.96
				99.98		
11	9	7	1	0.733319	2	0.128924
			2	0.074571	4	0.120474
			3	0.047290	5	0.092188
			4	0.034155	6	0.100095
			5	0.038335	7	0.108443
			7	0.036551	8	0.117067
			9	0.035779	9	0.398838
				BIAS CORR		
				0.303484		
				VAR COEFF		0.049757
				0.013887		
				EFFICIENCY		99.88
				99.95		
11	9	6	1	0.733713	2	0.129039
			2	0.074596	4	0.169078



TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
11	9	5	3	0.064659	6	0.142410
			5	0.054674	7	0.108512
			7	0.036564	8	0.117245
			9	0.035795	9	0.399292
				BIAS CORR		
				VAR COEFF		0.049818
				EFFICIENCY		99.76
			1	0.734639	3	0.181394
			2	0.097601	5	0.186949
			4	0.071644	7	0.153636
11	9	4	6	0.054188	8	0.117316
			9	0.041848	9	0.400232
				BIAS CORR		
				VAR COEFF		0.049929
				EFFICIENCY		99.94
			1	0.770483	3	0.172019
			3	0.118982	5	0.187665
			6	0.068569	7	0.223057
			9	0.041966	9	0.448283
				BIAS CORR		
11	9	3		VAR COEFF		0.050134
				EFFICIENCY		99.13
			1	0.775428	4	0.292644
			3	0.133686	7	0.266118
			7	0.040886	9	0.451330
				BIAS CORR		
				VAR COEFF		0.050485
				EFFICIENCY		98.44
			1	0.834498	6	0.430113
			5	0.165502	9	0.503329
11	9	2		BIAS CORR		
				VAR COEFF		0.051728
				EFFICIENCY		96.08
			1	0.834498	6	0.430113
			5	0.165502	9	0.503329
				BIAS CORR		
				VAR COEFF		0.051728
				EFFICIENCY		96.08
			1	1.000000	4	0.767480
				BIAS CORR		
11	9	1		VAR COEFF		0.058888
				EFFICIENCY		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				90.38		84.40
				EFFICIENCY		
11	8	3	1	0.734568	1	0.057320
			2	0.074717	2	0.072299
			3	0.047321	3	0.083568
			4	0.034272	4	0.094192
			5	0.026621	5	0.102890
			6	0.021584	6	0.112379
			7	0.017964	7	0.121169
			8	0.042954	8	0.548490
				BIAS CORR		
				0.296483		
				VAR COEFF		0.055944
				0.013911		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		72.65
				99.53		
11	8	7	1	0.734746	2	0.104231
			2	0.074741	3	0.083567
			3	0.047314	4	0.094221
			4	0.034294	5	0.102925
			5	0.026609	6	0.112434
			6	0.031711	7	0.121221
			8	0.050586	8	0.548759
				BIAS CORR		
				0.296142		
				VAR COEFF		0.055972
				0.013915		
				EFFICIENCY		99.95
				99.98		
11	8	6	1	0.735008	2	0.144857
			2	0.074767	4	0.135659
			3	0.047315	5	0.102963
			4	0.048288	6	0.112547
			6	0.044024	7	0.121266
			8	0.050597	8	0.549206
				BIAS CORR		
				0.295898		
				VAR COEFF		0.056016
				0.013920		
				EFFICIENCY		99.87
				99.94		
11	8	5	1	0.735737	2	0.145006
			2	0.074811	4	0.189970
			3	0.064790	6	0.160389
			5	0.066031	7	0.121359
			8	0.058632	8	0.549955

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	K	L	I	LOCATION	I	SCALE
11	8	4		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.295016		0.056092
				0.013934		99.74
				99.84		
			1	0.737450	3	0.203922
			2	0.097996	5	0.209788
			4	0.097102	7	0.172154
			8	0.067451	8	0.551190
11	8	3		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.293407		0.056235
				0.013967		99.48
				99.60		
			1	0.775428	3	0.257775
			3	0.133686	6	0.274345
			7	0.090886	8	0.605683
				BIAS CORR		
11	8	2		VAR COEFF		
				EFFICIENCY		
				0.285112		0.056498
				0.014048		99.02
				99.03		
			1	0.834498	5	0.402639
			5	0.165502	8	0.660763
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	8	1		0.263548		0.057311
				0.014286		97.61
				97.38		
			1	1.000000	8	0.905928
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.182517		0.062072
				0.015357		90.13
				90.58		
11	7	7	1	0.736847	1	0.065481
			2	0.074918	2	0.082228
			3	0.047487	3	0.095861
			4	0.034299	4	0.106576
			5	0.026707	5	0.117730
			6	0.021577	6	0.127446
			7	0.058166	7	0.723114
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.287531		0.063986
				0.013954		100.00
				100.00		63.52
				EFF(M/N)		
				99.22		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
11	7	6	1	0.737054	2	0.118713
			2	0.074927	3	0.095867
			3	0.047508	4	0.106616
			4	0.034290	5	0.117778
			5	0.038430	6	0.127517
			7	0.067791	7	0.723511
			BIAS CORR	0.287249		
			VAR COEFF	0.013958		0.064022
			EFFICIENCY	99.97		99.94
11	7	5	1	0.737451	2	0.165338
			2	0.074953	4	0.154170
			3	0.064945	5	0.117835
			5	0.054834	6	0.127660
			7	0.067818	7	0.724124
			BIAS CORR	0.287035		
			VAR COEFF	0.013966		0.064081
			EFFICIENCY	99.92		99.85
11	7	4	1	0.738522	2	0.165542
			2	0.098149	4	0.216368
			4	0.084869	6	0.182447
			7	0.078460	7	0.725172
			BIAS CORR	0.286306		
			VAR COEFF	0.013987		0.064181
			EFFICIENCY	99.77		99.70
11	7	3	1	0.775428	3	0.232733
			3	0.133686	5	0.239006
			7	0.090886	7	0.784343
			BIAS CORR	0.285112		
			VAR COEFF	0.014048		0.064362
			EFFICIENCY	99.33		99.42
11	7	2	1	0.834498	4	0.374076
			5	0.165502	7	0.843110
			BIAS CORR	0.263548		
			VAR COEFF	0.014206		0.064934
			EFFICIENCY	97.68		98.54
11	7	1	1	1.000000	7	1.062307

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
11	6	6		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			1	0.182517		
				0.015357		0.068245
				90.87		93.76
			1	0.739979	1	0.076131
			2	0.075237	2	0.096010
			3	0.047610	3	0.110788
			4	0.034444	4	0.124449
			5	0.026725	5	0.136107
11	6	5	6	0.076005	6	0.934409
				BIAS CORR		
				0.277147		
				VAR COEFF		0.074731
				0.014014		
				100.00		100.00
				EFF(M/N)		54.38
			1	0.740244	2	0.138442
			2	0.075263	3	0.110804
			3	0.047611	4	0.124507
			4	0.048500	5	0.136175
11	6	4	6	0.088382	6	0.935006
				BIAS CORR		
				0.276899		
				VAR COEFF		0.074780
				0.014019		
				EFFICIENCY		99.93
			1	0.740979	2	0.192359
			2	0.098460	4	0.179495
			4	0.072108	5	0.136259
			6	0.088452	6	0.935963
				BIAS CORR		
11	6	3		0.276735		
				VAR COEFF		0.074858
				0.014034		
				EFFICIENCY		99.83
			1	0.777138	2	0.192639
			3	0.119842	4	0.251476
			6	0.103020	6	1.000684
				BIAS CORR		
				0.276297		
				VAR COEFF		0.074992
				0.014078		
11	6	2		EFFICIENCY		99.65
			1	0.834498	3	0.341425
			5	0.115502	6	1.064477

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.263548		
				0.014286		0.075426
				98.10		99.08
11	6	1	1	1.000000	6	1.249677
				BIAS CORR		
				0.182517		
				VAR COEFF		0.077726
				0.015357		96.15
				EFFICIENCY		
				91.26		
11	5	5	1	0.744364	1	0.091124
			2	0.075616	2	0.114375
			3	0.047860	3	0.132660
			4	0.034536	4	0.147898
			5	0.097623	5	1.202557
				BIAS CORR		
				0.265058		
				VAR COEFF		0.089812
				0.014098		100.00
				EFFICIENCY		100.00
				EFF(M/N)		45.25
				98.21		
11	5	4	1	0.744767	2	0.165185
			2	0.075642	3	0.132696
			3	0.065422	4	0.147984
			5	0.114169	5	1.203454
				BIAS CORR		
				0.264834		
				VAR COEFF		0.089883
				0.014105		99.92
				EFFICIENCY		
				99.94		
11	5	3	1	0.746632	2	0.229799
			2	0.118296	4	0.213879
			5	0.135072	5	1.204862
				BIAS CORR		
				0.264230		
				VAR COEFF		0.089995
				0.014142		99.80
				EFFICIENCY		
				99.69		
11	5	2	1	0.834498	3	0.322717
			5	0.165502	5	1.279412
				BIAS CORR		
				0.263548		
				VAR COEFF		0.09073
				0.014286		99.49
				EFFICIENCY		
				98.68		
11	5	1	1	1.000000	5	1.487823

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	4	4	1	0.182517	1	0.091895
			2	0.015357	2	97.73
			3	0.048132	3	
			4	0.125027	4	0.113131
				BIAS CORR		0.142090
				VAR COEFF		0.164102
				EFFICIENCY		1.565396
				EFF(M/N)		0.112514
11	4	3	1	0.250804	2	100.00
			2	0.014218	3	36.12
			4	100.00	4	
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	4	2	1	0.751409	2	0.205208
			2	0.099636	3	0.164176
			4	0.148955	4	1.566816
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	4	1	1	0.250617	2	0.112622
			4	0.014233	4	99.90
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	4	1	1	0.816021	2	0.285231
			4	0.183979	4	1.650421
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	4	1	1	0.250421	4	0.112794
				VAR COEFF		99.75
				EFFICIENCY		
11	3	3	1	0.014323	2	1.812906
			2	99.27	3	0.113907
				BIAS CORR		98.78
				VAR COEFF		
				EFFICIENCY		
11	3	3	1	1.000000	1	0.149256
			2	0.182517	2	0.186958
			3	0.015357	3	2.105734
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	3	2	1	0.162798	1	0.150546
			2	0.233606	2	100.00
			3	0.014402	3	27.00
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	3	2	1	100.00	2	0.270308
			3	96.14	3	2.108155
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	3	2	1	0.796883	2	0.270308
			3	0.203117	3	2.108155

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	3	1	1	0.233609	3	0.150734
				0.014442		99.88
				99.72		
				BIAS CORR		
				0.182517		
				VAR COEFF		
				0.015357		0.151307
				EFFICIENCY		99.44
				93.78		
11	2	2	1	0.776285	1	0.219236
			2	0.223715	2	3.055082
				BIAS CORR		
				0.211982		
				VAR COEFF		
				0.014712		0.227245
				EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		17.88
				94.11		
11	2	1	1	1.000000	2	3.182424
				BIAS CORR		
				0.182517		
				VAR COEFF		
				0.015357		0.227651
				EFFICIENCY		99.82
				95.80		
11	1	1	1	1.000000	1	5.478940
				BIAS CORR		
				0.182517		
				VAR COEFF		
				0.015357		0.460999
				EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		8.82
				90.16		
12	12	12	1	0.727119	1	0.037231
			2	0.073053	2	0.046817
			3	0.046165	3	0.054252
			4	0.033352	4	0.060696
			5	0.025973	5	0.066636
			6	0.021043	6	0.072357
			7	0.017655	7	0.078070
			8	0.014977	8	0.083997
			9	0.012895	9	0.090413
			10	0.011082	10	0.097809
			11	0.009406	11	0.107335
			12	0.007280	12	0.128877
				BIAS CORR		
				0.305009		
				VAR COEFF		
				0.012289		0.037239



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.727255	2	0.067686
			2	0.073050	3	0.054241
			3	0.046208	4	0.060704
			4	0.033303	5	0.066642
			5	0.026022	6	0.072362
			6	0.021016	7	0.078081
			7	0.026157	8	0.084025
			9	0.019223	9	0.090434
			10	0.011077	10	0.097837
			11	0.009407	11	0.107364
			12	0.007280	12	0.128912
				BIAS CORR		
				VAR COEFF		0.037249
				EFFICIENCY		99.97
12	12	10	1	0.727395	2	0.093780
			2	0.073106	4	0.087872
			3	0.046117	5	0.066632
			4	0.033447	6	0.072460
			5	0.025897	7	0.078032
			6	0.030752	8	0.084129
			8	0.030454	9	0.090428
			10	0.016151	10	0.097893
			11	0.009400	11	0.107406
			12	0.007281	12	0.128968
				BIAS CORR		
				VAR COEFF		0.037265
				EFFICIENCY		99.93
12	12	9	1	0.727597	2	0.093821
			2	0.073061	4	0.122417
			3	0.046264	6	0.103976
			4	0.033262	7	0.077986
			5	0.037240	8	0.084301
			7	0.035784	9	0.090385
			9	0.026312	10	0.098008
			11	0.013201	11	0.107466
			12	0.007278	12	0.129058

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**  
**SHAPE PARAMETER = 1.50**

N	M	L	I	LOCATION	I	SCALE
12	12	8		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.304007		
				0.012297		0.037291
				99.93		99.86
			1	0.727876	2	0.093916
			2	0.073160	4	0.122585
			3	0.046122	6	0.146833
			4	0.046882	8	0.118981
			6	0.042976	9	0.090432
			8	0.030461	10	0.098163
			10	0.023013	11	0.107515
			12	0.009509	12	0.129223
12	12	7		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.303076		
				0.012302		0.037339
				99.89		99.73
			1	0.728453	3	0.132155
			2	0.073140	5	0.135057
			3	0.063018	7	0.159479
			5	0.053383	9	0.126529
			7	0.044475	10	0.098118
			10	0.028018	11	0.107847
			12	0.009514	12	0.129461
				BIAS CORR		
12	12	6		VAR COEFF		
				EFFICIENCY		
				0.302175		
				0.012312		0.037411
				99.82		99.54
			1	0.729382	3	0.165940
			2	0.073263	6	0.176865
			3	0.063042	8	0.173545
			5	0.064073	10	0.134384
			8	0.046973	11	0.108144
			11	0.023346	12	0.129914
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
12	12	5		0.297640		
				0.012326		0.037543
				99.70		99.19
			1	0.730646	4	0.211760
			2	0.095664	7	0.191693
12	12	5	4	0.082398	9	0.191030
			7	0.064418	11	0.142852

TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			11	0.026874	12	0.130723
			BIAS CORR	0.295593		
			VAR COEFF	0.012349		0.037790
			EFFICIENCY	99.51		98.54
12	12	4	1	0.765774	5	0.311529
			3	0.116422	9	0.254445
			6	0.076604	11	0.144608
			10	0.041200	12	0.132400
			BIAS CORR	0.291561		
			VAR COEFF	0.012391		0.038282
			EFFICIENCY	99.18		97.28
12	12	3	1	0.770994	6	0.376172
			3	0.142783	10	0.282761
			8	0.086223	12	0.162463
			BIAS CORR	0.276980		
			VAR COEFF	0.012476		0.039250
			EFFICIENCY	98.50		94.88
12	12	2	1	0.829186	8	0.551905
			5	0.170814	12	0.214647
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.042505
			EFFICIENCY	96.77		87.61
12	12	1	1	1.000000	10	0.739784
			BIAS CORR	0.172291		
			VAR COEFF	0.013675		0.054067
			EFFICIENCY	89.87		68.88
12	11	11	1	0.727705	1	0.040607
			2	0.073111	2	0.051053
			3	0.046202	3	0.059183
			4	0.033374	4	0.066132
			5	0.025995	5	0.072710
			6	0.021052	6	0.078771
			7	0.017668	7	0.085142
			8	0.014978	8	0.091431
			9	0.012892	9	0.098381
			10	0.011064	10	0.106184

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 12 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			11	0.015960	11	0.243431
			BIAS CORR	0.300621		
			VAR COEFF	0.012299		0.040628
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.92		91.66
12	11	10	1	0.727842	2	0.073816
			2	0.073108	3	0.059173
			3	0.046245	4	0.066141
			4	0.033326	5	0.072738
			5	0.026045	6	0.078803
			6	0.021024	7	0.085135
			7	0.026171	8	0.091463
			9	0.019221	9	0.098407
			10	0.011059	10	0.106216
			11	0.015961	11	0.243504
			BIAS CORR	0.300336		
			VAR COEFF	0.012301		0.040640
			EFFICIENCY	99.98		99.97
12	11	9	1	0.727982	2	0.102286
			2	0.073164	4	0.095783
			3	0.046154	5	0.072730
			4	0.033470	6	0.078891
			5	0.025919	7	0.085106
			6	0.030767	8	0.091580
			8	0.030459	9	0.098404
			10	0.016131	10	0.106282
			11	0.015955	11	0.243614
			BIAS CORR	0.300084		
			VAR COEFF	0.012304		0.040657
			EFFICIENCY	99.96		99.97
12	11	8	1	0.728183	2	0.102338
			2	0.073129	4	0.122499
			3	0.046381	6	0.113246
			4	0.033784	7	0.085061
			5	0.037287	8	0.091775
			7	0.035881	9	0.098362
			9	0.026258	10	0.106414
			11	0.019747	11	0.243784

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.299541		
				0.012307		0.040690
				99.94		99.85
12	11	7	1	0.728535	2	0.102453
			2	0.073140	4	0.133697
			3	0.063028	6	0.160062
			5	0.053415	8	0.129615
			7	0.035016	9	0.098426
			9	0.026312	10	0.106595
			11	0.019753	11	0.244103
				BIAS CORR		
				0.299395		
				VAR COEFF		0.040747
				0.012313		99.71
				EFFICIENCY		
				99.89		
12	11	6	1	0.729302	3	0.144168
			2	0.073263	5	0.147304
			3	0.063042	7	0.173832
			5	0.064073	9	0.137749
			8	0.046973	10	0.106561
			11	0.023346	11	0.244662
				BIAS CORR		
				0.297640		
				VAR COEFF		0.040832
				0.012326		99.50
				EFFICIENCY		
				99.78		
12	11	5	1	0.730646	3	0.161094
			2	0.095664	6	0.192904
			4	0.082398	8	0.189093
			7	0.064418	10	0.146085
			11	0.026874	11	0.245509
				BIAS CORR		
				0.295593		
				VAR COEFF		0.040990
				0.012349		99.12
				EFFICIENCY		
				99.59		
12	11	4	1	0.765774	4	0.231171
			3	0.116422	7	0.209152
			6	0.076604	9	0.207982
			10	0.041200	11	0.284165
				BIAS CORR		
				0.291561		
				VAR COEFF		0.041281
				0.012391		98.42
				EFFICIENCY		
				99.26		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	0.770994	5	0.340421
			3	0.142783	9	0.277482
			8	0.086223	11	0.288066
			BIAS CORR			
			VAR COEFF			0.041867
			EFFICIENCY			97.04
12	11	2	1	0.829186	7	0.485685
			5	0.170814	11	0.359119
			BIAS CORR			
			VAR COEFF			0.043642
			EFFICIENCY			93.09
12	11	1	1	1.000000	10	0.739784
			BIAS CORR			
			VAR COEFF			0.054067
			EFFICIENCY			75.14
12	10	10	1	0.728647	1	0.044646
			2	0.073206	2	0.056184
			3	0.046248	3	0.064894
			4	0.033434	4	0.073044
			5	0.025992	5	0.079412
			6	0.021099	6	0.087021
			7	0.017657	7	0.093129
			8	0.014987	8	0.100428
			9	0.012874	9	0.107669
			10	0.025855	10	0.364523
			BIAS CORR			
			VAR COEFF			0.044704
			EFFICIENCY			100.00
			EFF(M/N)			83.30
12	10	9	1	0.728783	2	0.081214
			2	0.073203	3	0.064885
			3	0.046292	4	0.073057
			4	0.033386	5	0.079423
			5	0.026042	6	0.087056
			6	0.021072	7	0.093146
			7	0.026165	8	0.100467

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
12	10	8	9	0.019206	9	0.107701
			10	0.025851	10	0.364644
			BIAS CORR	0.294738		
			VAR COEFF	0.012317		0.044719
			EFFICIENCY	99.98		99.97
			1	0.728922	2	0.112438
			2	0.073259	4	0.105566
			3	0.046200	5	0.079417
			4	0.033529	6	0.087156
			5	0.025916	7	0.093096
12	10	7	6	0.030809	8	0.100599
			8	0.030452	9	0.107702
			10	0.030911	10	0.364844
			BIAS CORR	0.294409		
			VAR COEFF	0.012320		0.044742
			EFFICIENCY	99.96		99.92
			1	0.729147	2	0.112501
			2	0.073287	4	0.146759
			3	0.046195	6	0.124736
			4	0.046958	7	0.093053
12	10	6	6	0.043031	8	0.103819
			8	0.030464	9	0.107664
			10	0.030918	10	0.365184
			BIAS CORR	0.294237		
			VAR COEFF	0.012324		0.044779
			EFFICIENCY	99.93		99.93
			1	0.729725	2	0.112642
			2	0.073266	4	0.146996
			3	0.063122	6	0.175916
			5	0.053460	8	0.142232
12	10	5	7	0.044501	9	0.107746
			10	0.035926	10	0.365753
			BIAS CORR	0.293330		
			VAR COEFF	0.012333		0.044947
			EFFICIENCY	99.85		99.68
			1	0.730669	3	0.158612
			2	0.095068	5	0.161867

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.082433	7	0.190870
			7	0.055251	9	0.150987
			10	0.035979	10	0.366377
		BIAS CORR		0.292835		
		VAR COEFF		0.012350		0.044952
		EFFICIENCY		99.72		99.45
12	10	4	1	0.765774	3	0.199166
			3	0.116422	6	0.212167
			6	0.076604	8	0.207461
			10	0.041200	10	0.410647
		BIAS CORR		0.291561		
		VAR COEFF		0.012391		0.045139
		EFFICIENCY		99.39		99.04
12	10	3	1	0.770994	5	0.309614
			3	0.142783	8	0.247161
			8	0.086223	10	0.414208
		BIAS CORR		0.276980		
		VAR COEFF		0.012476		0.045541
		EFFICIENCY		98.71		98.16
12	10	2	1	0.829186	6	0.446469
			5	0.170814	10	0.495779
		BIAS CORR		0.249489		
		VAR COEFF		0.012700		0.046710
		EFFICIENCY		96.97		95.71
12	10	1	1	1.000000	10	0.739784
		BIAS CORR		0.172281		
		VAR COEFF		0.013675		0.054067
		EFFICIENCY		90.06		82.68
12	9	9	1	0.729984	1	0.049616
			2	0.073323	2	0.062177
			3	0.046366	3	0.072644
			4	0.033414	4	0.079927
			5	0.026116	5	0.089461
			6	0.021049	6	0.095339
			7	0.017705	7	0.103760
			8	0.014964	8	0.110857



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
12	9	8	9	0.037079	9	0.497962
			BIAS CORR	0.288431		
			VAR COEFF	0.012338		0.049694
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.61		74.94
			1	0.730120	2	0.089996
			2	0.073320	3	0.072637
			3	0.046409	4	0.079943
			4	0.033366	5	0.089478
			5	0.026165	6	0.095380
12	9	7	6	0.021022	7	0.103784
			7	0.026200	8	0.110904
			9	0.043398	9	0.498140
			BIAS CORR	0.288147		
			VAR COEFF	0.012340		0.049712
			EFFICIENCY	99.98		99.96
			1	0.730295	2	0.124958
			2	0.073320	4	0.116342
			3	0.046442	5	0.089477
			4	0.033344	6	0.095498
12	9	6	5	0.037364	7	0.103734
			7	0.035830	8	0.111059
			9	0.043407	9	0.498382
			BIAS CORR	0.287951		
			VAR COEFF	0.012343		0.049741
			EFFICIENCY	99.96		99.91
			1	0.730648	2	0.125043
			2	0.073340	4	0.162771
			3	0.063199	6	0.137852
			5	0.053541	7	0.103696
12	9	5	7	0.035846	8	0.111317
			9	0.043427	9	0.498749
			BIAS CORR	0.287801		
			VAR COEFF	0.012349		0.049787
			EFFICIENCY	99.91		99.81
			1	0.731439	3	0.175669
			2	0.095791	5	0.179397

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.070214	7	0.148092
			6	0.052587	8	0.110900
			9	0.049970	9	0.499856
		BIAS CORR		0.287114		
		VAR COEFF		0.012363		0.049871
		EFFICIENCY		99.80		99.64
12	9	4	1	0.733511	3	0.176084
			2	0.114290	5	0.179855
			5	0.095195	7	0.211436
			9	0.057003	9	0.547991
		BIAS CORR		0.285508		
		VAR COEFF		0.012398		0.049995
		EFFICIENCY		99.51		99.40
12	9	3	1	0.770994	4	0.280671
			3	0.142783	7	0.253319
			8	0.086223	9	0.550863
		BIAS CORR		0.276980		
		VAR COEFF		0.012476		0.050268
		EFFICIENCY		98.89		98.86
12	9	2	1	0.829186	5	0.414206
			5	0.170814	9	0.640932
		BIAS CORR		0.249489		
		VAR COEFF		0.012700		0.051130
		EFFICIENCY		97.15		97.19
12	9	1	1	1.000000	9	0.864584
		BIAS CORR		0.172231		
		VAR COEFF		0.013675		0.056043
		EFFICIENCY		90.22		88.67
12	8	3	1	0.731797	1	0.055666
			2	0.073530	2	0.070358
			3	0.046384	3	0.080302
			4	0.033619	4	0.091799
			5	0.026020	5	0.098277
			6	0.021164	6	0.108264
			7	0.017670	7	0.115604
			8	0.049816	8	0.649791

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.280817		
				0.012368		0.055939
				100.00		100.00
				99.36		66.57
12	8	7	1	0.731936	2	0.101575
			2	0.073561	3	0.080297
			3	0.046355	4	0.091822
			4	0.033666	5	0.098299
			5	0.025989	6	0.108316
			6	0.030855	7	0.115635
			8	0.057638	8	0.650061
				BIAS CORR		
				0.280586		
				VAR COEFF		0.055962
				0.012371		99.96
				99.98		
12	8	5	1	0.732162	2	0.140231
			2	0.073588	4	0.132068
			3	0.046350	5	0.098303
			4	0.047132	6	0.108453
			6	0.043112	7	0.115586
			8	0.057656	8	0.650521
				BIAS CORR		
				0.280409		
				VAR COEFF		0.055997
				0.012375		99.90
				99.95		
12	8	3	1	0.732790	2	0.140337
			2	0.073614	4	0.183092
			3	0.063310	6	0.154998
			5	0.064275	7	0.115555
			8	0.066010	8	0.651241
				BIAS CORR		
				0.279781		
				VAR COEFF		0.056054
				0.012385		99.80
				99.86		
12	8	4	1	0.734273	2	0.140562
			2	0.096100	4	0.183452
			4	0.094306	6	0.218631
			8	0.075322	8	0.703638
				BIAS CORR		
				0.278650		
				VAR COEFF		0.056159
				0.012411		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.66
						99.61
12	8	3	1	0.770994	3	0.247720
			3	0.142783	6	0.263161
			8	0.086223	8	0.705978
				BIAS CORR		0.276980
				VAR COEFF		0.012476
				EFFICIENCY		99.14
						99.26
12	8	2	1	0.829186	5	0.385363
			5	0.170814	8	0.760646
				BIAS CORR		0.249489
				VAR COEFF		0.012700
				EFFICIENCY		97.39
						98.16
12	8	1	1	1.000000	8	1.001732
				BIAS CORR		0.172231
				VAR COEFF		0.013675
				EFFICIENCY		90.45
						92.55
12	7	7	1	0.734252	1	0.063703
			2	0.073709	2	0.079468
			3	0.046639	3	0.093326
			4	0.033545	4	0.102231
			5	0.026201	5	0.113803
			6	0.021121	6	0.122135
			7	0.064532	7	0.828153
				BIAS CORR		0.272089
				VAR COEFF		0.012410
				EFFICIENCY		100.00
				EFF(M/N)		99.03
						58.20
12	7	6	1	0.734428	2	0.115198
			2	0.073709	3	0.093326
			3	0.046672	4	0.102263
			4	0.033523	5	0.113835
			5	0.037453	6	0.122201
			7	0.074215	7	0.828527
				BIAS CORR		0.271888
				VAR COEFF		0.012413
				EFFICIENCY		99.98
						99.95

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
12	7	5	1	0.734786	2	0.160143
			2	0.073730	4	0.149053
			3	0.063519	5	0.113853
			5	0.053717	6	0.122372
			7	0.074248	7	0.829058
			BIAS CORR	0.271730		
			VAR COEFF	0.012419		0.064060
			EFFICIENCY	99.93		99.88
		4	1	0.735745	2	0.160292
			2	0.096298	4	0.208181
			4	0.082857	6	0.176307
			7	0.085100	7	0.829936
			BIAS CORR	0.271195		
			VAR COEFF	0.012436		0.064136
			EFFICIENCY	99.79		99.76
12	7	3	1	0.771554	3	0.225374
			3	0.130532	5	0.229160
			7	0.097914	7	0.888002
			BIAS CORR	0.270384		
			VAR COEFF	0.012485		0.064273
			EFFICIENCY	99.40		99.55
12	7	2	1	0.829186	4	0.359117
			5	0.170814	7	0.945862
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.064717
			EFFICIENCY	97.72		98.66
12	7	1	1	1.000000	7	1.160560
			BIAS CORR	0.172231		
			VAR COEFF	0.013675		0.067238
			EFFICIENCY	90.75		95.16
12	6	6	1	0.737540	1	0.073910
			2	0.074075	2	0.093296
			3	0.046707	3	0.106861
			4	0.033767	4	0.120441
			5	0.026187	5	0.130931

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			6	0.081725	6	1.045505
			BIAS CORR	0.262064		
			VAR COEFF	0.012466		0.074728
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.58		49.83
12	6	3	1	0.737769	2	0.134761
			2	0.074103	3	0.106869
			3	0.046702	4	0.120488
			4	0.047335	5	0.130978
			6	0.094091	6	1.046065
			BIAS CORR	0.261880		
			VAR COEFF	0.012470		0.074769
			EFFICIENCY	99.97		99.95
12	6	4	1	0.738450	2	0.186247
			2	0.096640	4	0.174086
			4	0.070744	5	0.131011
			6	0.094166	6	1.046938
			BIAS CORR	0.261766		
			VAR COEFF	0.012482		0.074831
			EFFICIENCY	99.87		99.86
12	6	5	1	0.773665	2	0.186450
			3	0.117472	3	0.242165
			6	0.108863	6	1.110137
			BIAS CORR	0.261487		
			VAR COEFF	0.012519		0.074931
			EFFICIENCY	99.58		99.73
12	6	2	1	0.829186	3	0.328329
			5	0.170814	6	1.172722
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.075273
			EFFICIENCY	98.16		99.28
12	5	1	1	1.000000	6	1.353620
			BIAS CORR	0.172231		
			VAR COEFF	0.013675		0.077081
			EFFICIENCY	91.16		96.95

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
12	5	5	1	0.742087	1	0.088558
			2	0.074446	2	0.110783
			3	0.046999	3	0.128474
			4	0.033844	4	0.142729
			5	0.102626	5	1.322886
			BIAS CORR	0.250478		
			VAR COEFF	0.012543		0.089810
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.97		41.46
12	5	4	1	0.742451	2	0.160482
			2	0.074467	3	0.128497
			3	0.064007	4	0.142799
			5	0.119075	5	1.323706
			BIAS CORR	0.250308		
			VAR COEFF	0.012549		0.089868
			EFFICIENCY	99.95		99.93
12	5	3	1	0.744167	2	0.222425
			2	0.115788	4	0.207278
			5	0.140045	5	1.324943
			BIAS CORR	0.249865		
			VAR COEFF	0.012579		0.089958
			EFFICIENCY	99.71		99.83
12	5	2	1	0.829186	3	0.312478
			5	0.170814	5	1.397561
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.090183
			EFFICIENCY	98.77		99.59
12	5	1	1	1.000000	5	1.601217
			BIAS CORR	0.172251		
			VAR COEFF	0.013475		0.091480
			EFFICIENCY	91.7		98.17
12	4	4	1	0.748528	1	0.109863
			2	0.075034	2	0.137762
			3	0.047274	3	0.158763
			4	0.129163	4	1.699980
			BIAS CORR	0.236883		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY EFF(M/N)		0.112512 100.00 33.10
12	4	3	1	0.749225	2	0.199448
			2	0.097849	3	0.158815
			4	0.152926	4	1.701266
				BIAS CORR VAR COEFF EFFICIENCY		0.112602 99.92
12	4	2	1	0.812019	2	0.276068
			4	0.187981	4	1.782776
				BIAS CORR VAR COEFF EFFICIENCY		0.112740 99.90
12	4	1	1	1.000000	4	1.941225
				BIAS CORR VAR COEFF EFFICIENCY		0.113647 99.00
12	3	3	1	0.758244	1	0.144938
			2	0.075841	2	0.181220
			3	0.165915	3	2.263847
				BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)		0.150544 100.00 24.74
12	3	2	1	0.794022	2	0.262662
			3	0.205978	3	2.266017
				BIAS CORR VAR COEFF EFFICIENCY		0.150701 99.90
12	2	1	1	1.000000	3	2.456813
				BIAS CORR VAR COEFF EFFICIENCY		0.151246 99.54



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	0.774444	1	0.212857
			2	0.225556	2	3.258216
				BIAS CORR		
				0.200072		
				VAR COEFF		0.227244
				0.013098		
				EFFICIENCY		100.00
12	2	1		EFF(M/N)		16.39
				93.92		
			1	1.000000	2	3.382210
				BIAS CORR		
				0.172231		
				VAR COEFF		0.227593
				0.013675		
12	1	1		EFFICIENCY		99.85
				65.78		
			1	1.000000	1	5.806159
				BIAS CORR		
				0.172231		
				VAR COEFF		0.460999
				0.013675		
13	13	13		EFFICIENCY		100.00
				100.00		
				EFF(M/N)		8.78
				84.87		
			1	0.723622	1	0.033498
			2	0.071926	2	0.042051
			3	0.045336	3	0.048647
			4	0.032687	4	0.054325
			5	0.025471	5	0.059516
			6	0.020586	6	0.064454
			7	0.017381	7	0.069320
			8	0.014716	8	0.074254
			9	0.012809	9	0.079440
			10	0.011102	10	0.085109
			11	0.009658	11	0.091701
			12	0.008261	12	0.100256
			13	0.006447	13	0.119829
				BIAS CORR		
				0.249436		
				VAR COEFF		0.034361
				0.011013		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
13	13	12	1	0.723720	2	0.060912
			2	0.071964	3	0.048686
			3	0.045262	4	0.054330
			4	0.032829	5	0.059513
			5	0.025323	6	0.064481

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			6	0.020698	7	0.069314
			7	0.017326	8	0.074285
			8	0.022032	9	0.079446
			10	0.016489	10	0.085131
			11	0.009651	11	0.091719
			12	0.008263	12	0.100278
			13	0.006447	13	0.119855
			BIAS CORR	0.295392		
			VAR COEFF	0.011015		0.034369
			EFFICIENCY	99.99		99.98
12	13	11	1	0.723848	2	0.084145
			2	0.071892	4	0.078906
			3	0.045488	5	0.059479
			4	0.032463	6	0.064598
			5	0.025725	7	0.069163
			6	0.020402	8	0.074498
			7	0.025570	9	0.079322
			9	0.025906	10	0.085234
			11	0.014006	11	0.091723
			12	0.008253	12	0.100315
			13	0.006447	13	0.119894
			BIAS CORR	0.295111		
			VAR COEFF	0.011016		0.034340
			EFFICIENCY	99.97		99.95
12	13	10	1	0.723965	2	0.084170
			2	0.072031	4	0.109366
			3	0.049175	6	0.093159
			4	0.032979	7	0.068993
			5	0.025182	8	0.074858
			6	0.030074	9	0.079005
			8	0.029904	10	0.085516
			10	0.022692	11	0.091667
			12	0.011594	12	0.100387
			13	0.006444	13	0.119432
			BIAS CORR	0.294710		
			VAR COEFF	0.011014		0.034397
			EFFICIENCY	99.95		99.90
11	13	9	1	0.724160	2	0.084210

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			2	0.072062	4	0.109517
			3	0.045161	6	0.130247
			4	0.045878	8	0.106399
			6	0.042112	9	0.078878
			8	0.029924	10	0.085768
			10	0.022708	11	0.091633
			12	0.011552	12	0.100501
			13	0.006444	13	0.120049
			BIAS CORR	0.294586		
			VAR COEFF	0.011022		0.034426
			EFFICIENCY	99.92		99.81
11	13	0	1	0.724532	3	0.118528
			2	0.071912	5	0.120254
			3	0.061697	7	0.140663
			5	0.052351	9	0.112968
			7	0.035110	10	0.084810
			9	0.025954	11	0.092241
			11	0.020048	12	0.100499
			13	0.008396	13	0.120214
			BIAS CORR	0.293801		
			VAR COEFF	0.011027		0.034471
			EFFICIENCY	99.88		99.68
11	13	7	1	0.725121	3	0.147834
			2	0.072097	6	0.157569
			3	0.061649	8	0.151663
			5	0.062520	10	0.119308
			9	0.045870	11	0.091970
			11	0.024343	12	0.100845
			13	0.008400	13	0.120463
			BIAS CORR	0.292677		
			VAR COEFF	0.011036		0.034548
			EFFICIENCY	99.79		99.46
11	13	0	1	0.725902	4	0.180115
			2	0.043853	7	0.169724
			4	0.060731	9	0.164187
			6	0.051181	11	0.126150
			9	0.034852	12	0.101101
			12	0.020480	13	0.120913

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.289090		
				0.011048		0.034676
				99.68		99.09
13	13	5	1	0.727335	5	0.230411
			2	0.094001	8	0.182689
			4	0.080602	10	0.180066
			7	0.062409	12	0.133678
			11	0.035654	13	0.121760
				BIAS CORR		
				0.283630		
				VAR COEFF		0.034930
				0.011070		98.37
				EFFICIENCY		
				79.49		
12	13	4	1	0.761966	6	0.324784
			3	0.114332	10	0.240096
			6	0.063527	12	0.135382
			11	0.040176	13	0.123405
				BIAS CORR		
				0.281876		
				VAR COEFF		0.035411
				0.011110		97.04
				EFFICIENCY		
				99.13		
12	13	3	1	0.791042	7	0.384108
			4	0.136366	11	0.265865
			9	0.072593	13	0.151526
				BIAS CORR		
				0.271372		
				VAR COEFF		0.036329
				0.011189		94.58
				EFFICIENCY		
				98.43		
12	13	2	1	0.840472	9	0.546077
			6	0.159528	13	0.200630
				BIAS CORR		
				0.247027		
				VAR COEFF		0.039428
				0.011393		87.15
				EFFICIENCY		
				96.66		
11	13	1	1	1.000000	11	0.716340
				BIAS CORR		
				0.163281		
				VAR COEFF		0.090114
				0.012291		68.97
				EFFICIENCY		
				89.61		
13	12	12	1	0.724129	1	0.036281
			2	0.071979	2	0.049552

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			3	0.045365	3	0.052653
			4	0.032712	4	0.058912
			5	0.025480	5	0.064293
			6	0.020608	6	0.069981
			7	0.017381	7	0.074843
			8	0.014728	8	0.080484
			9	0.012807	9	0.085848
			10	0.011099	10	0.091986
			11	0.009642	11	0.098882
			12	0.014080	12	0.225607
			BIAS CORR	0.291697		
			VAR COEFF	0.011021		0.037227
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.93		92.30
12	12	11	1	0.724222	2	0.066003
			2	0.072014	3	0.052642
			3	0.045291	4	0.058920
			4	0.032851	5	0.064291
			5	0.025332	6	0.070011
			6	0.020720	7	0.074836
			7	0.017326	8	0.080519
			8	0.022044	9	0.085857
			10	0.016486	10	0.092012
			11	0.009635	11	0.098903
			12	0.014082	12	0.225660
			BIAS CORR	0.291456		
			VAR COEFF	0.011022		0.037236
			EFFICIENCY	99.99		99.98
13	12	10	1	0.724351	2	0.091130
			2	0.071942	4	0.085522
			3	0.045517	5	0.064256
			4	0.032484	6	0.070140
			5	0.025733	7	0.074677
			6	0.020424	8	0.080792
			7	0.025576	9	0.085729
			8	0.025907	10	0.092126
			11	0.013988	11	0.098910
			12	0.014073	12	0.225743
			BIAS CORR	0.291172		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
13	12	9		VAR COEFF		0.037249
				EFFICIENCY		99.94
			1	0.724468	2	0.091162
			2	0.072081	4	0.118433
			3	0.045204	6	0.100999
			4	0.033004	7	0.074495
			5	0.025191	8	0.081144
			6	0.030096	9	0.085386
			8	0.029915	10	0.092434
			10	0.022677	11	0.098854
			12	0.017365	12	0.225886
				BIAS CORR		
				VAR COEFF		0.037269
				EFFICIENCY		99.89
13	12	8	1	0.724662	2	0.091210
			2	0.072112	4	0.118604
			3	0.045190	6	0.141054
			4	0.045908	8	0.115208
			6	0.042137	9	0.085255
			8	0.029935	10	0.092713
			10	0.022694	11	0.098823
			12	0.017363	12	0.226119
				BIAS CORR		
				VAR COEFF		0.037303
				EFFICIENCY		99.80
13	12	7	1	0.725166	3	0.128417
			2	0.072018	5	0.130239
			3	0.061749	7	0.152267
			5	0.052320	9	0.122114
			7	0.043289	10	0.091686
			10	0.028072	11	0.099493
			12	0.017386	12	0.226307
				BIAS CORR		
				VAR COEFF		0.037356
				EFFICIENCY		99.66
13	12	6	1	0.725902	3	0.160148
			2	0.093853	6	0.170695

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.068731	8	0.164178
			6	0.051181	10	0.129000
			9	0.039852	11	0.099215
			12	0.020480	12	0.226961
			BIAS CORR	0.289090		
			VAR COEFF	0.011048		0.037445
			EFFICIENCY	99.75		99.42
13	12	5	1	0.727335	4	0.203694
			2	0.094001	7	0.183814
			4	0.080602	9	0.177679
			7	0.062409	11	0.136215
			11	0.035654	12	0.227750
			BIAS CORR	0.283630		
			VAR COEFF	0.011070		0.037596
			EFFICIENCY	99.56		99.02
13	12	4	1	0.761966	5	0.249785
			3	0.114332	8	0.197991
			6	0.083527	10	0.194717
			11	0.040176	12	0.263885
			BIAS CORR	0.281876		
			VAR COEFF	0.011110		0.037893
			EFFICIENCY	99.19		98.24
13	12	3	1	0.791042	6	0.352471
			4	0.136366	10	0.260046
			9	0.072593	12	0.267640
			BIAS CORR	0.271372		
			VAR COEFF	0.011189		0.038457
			EFFICIENCY	98.50		96.80
13	12	2	1	0.840472	8	0.484972
			6	0.159528	12	0.334688
			BIAS CORR	0.247027		
			VAR COEFF	0.011393		0.040207
			EFFICIENCY	96.73		92.59
13	12	1	1	1.000000	11	0.716340
			BIAS CORR	0.163281		
			VAR COEFF	0.012291		0.050114

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	89.67	74.28
13	11	11	1	0.724921	1	0.039581
			2	0.072049	2	0.049603
			3	0.045428	3	0.057690
			4	0.032708	4	0.063578
			5	0.025565	5	0.071151
			6	0.020554	6	0.075032
			7	0.017451	7	0.082555
			8	0.014699	8	0.087030
			9	0.012819	9	0.093640
			10	0.011080	10	0.099842
			11	0.022726	11	0.336232
			BIAS CORR	0.286796		
			VAR COEFF	0.011033		0.040621
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.82		84.59
13	11	10	1	0.725019	2	0.071915
			2	0.072087	3	0.057679
			3	0.045355	4	0.063587
			4	0.032846	5	0.071151
			5	0.025417	6	0.075067
			6	0.020666	7	0.082551
			7	0.017396	8	0.087071
			8	0.022021	9	0.093651
			10	0.016472	10	0.099872
			11	0.022721	11	0.336317
			BIAS CORR	0.286553		
			VAR COEFF	0.011034		0.040631
			EFFICIENCY	99.99		99.97
13	11	9	1	0.725146	2	0.099450
			2	0.072015	4	0.092738
			3	0.045580	5	0.071116
			4	0.032485	6	0.075210
			5	0.025818	7	0.082378
			6	0.020371	8	0.087328
			7	0.025629	9	0.093509
			9	0.025896	10	0.100000
			11	0.027059	11	0.336421



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.286276		
				0.011036		0.040647
				99.97		99.94
13	11	8	1	0.725298	2	0.099491
			2	0.072000	4	0.129169
			3	0.045634	6	0.109369
			4	0.032440	7	0.082182
			5	0.036516	8	0.087767
			7	0.035135	9	0.093140
			9	0.025915	10	0.100346
			11	0.027062	11	0.336524
				BIAS CORR		
				0.286138		
				VAR COEFF		0.040672
				0.011038		99.87
				EFFICIENCY		
				99.95		
13	11	7	1	0.725616	2	0.099554
			2	0.072016	4	0.129370
			3	0.061784	6	0.153572
			5	0.052422	8	0.125357
			7	0.035147	9	0.093003
			9	0.025950	10	0.100663
			11	0.027064	11	0.336761
				BIAS CORR		
				0.286035		
				VAR COEFF		0.040713
				0.011043		99.77
				EFFICIENCY		
				99.91		
13	11	6	1	0.726206	3	0.139971
			2	0.072202	5	0.142103
			3	0.061736	7	0.166024
			5	0.062605	9	0.132889
			8	0.045889	10	0.099545
			11	0.031362	11	0.337690
				BIAS CORR		
				0.284906		
				VAR COEFF		0.040772
				0.011053		99.63
				EFFICIENCY		
				99.82		
13	11	5	1	0.727335	3	0.174878
			2	0.094001	6	0.185922
			4	0.080602	8	0.178837
			7	0.062409	10	0.140293

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			11	0.035654	11	0.338154
			BIAS CORR	0.283630		
			VAR COEFF	0.011070		0.040881
			EFFICIENCY	99.67		99.36
12	11	4	1	0.761966	4	0.222290
			3	0.114332	7	0.200659
			6	0.083527	9	0.193330
			11	0.040176	11	0.379244
			BIAS CORR	0.281876		
			VAR COEFF	0.011110		0.041057
			EFFICIENCY	99.30		98.94
13	11	3	1	0.791042	5	0.323829
			4	0.136366	9	0.263086
			9	0.072593	11	0.382939
			BIAS CORR	0.271372		
			VAR COEFF	0.011189		0.041479
			EFFICIENCY	98.60		97.93
13	11	2	1	0.840472	7	0.449659
			6	0.151528	11	0.459395
			BIAS CORR	0.247027		
			VAR COEFF	0.011393		0.042629
			EFFICIENCY	96.84		95.29
13	11	1	1	1.000000	11	0.716340
			BIAS CORR	0.163281		
			VAR COEFF	0.012291		0.050114
			EFFICIENCY	89.77		81.06
13	10	10	1	0.726030	1	0.043468
			2	0.072177	2	0.054864
			3	0.045426	3	0.062302
			4	0.032898	4	0.072236
			5	0.025388	5	0.074780
			6	0.020784	6	0.085778
			7	0.017320	7	0.088279
			8	0.014771	8	0.096568
			9	0.012798	9	0.102206
			10	0.032421	10	0.456479

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.281063				
				VAR COEFF	0.011050	0.044699			
				EFFICIENCY	100.00	100.00			
				EFF(M/N)	99.67	76.87			
13	10	9	1	0.726127	2	0.079370			
			2	0.072215	3	0.062292			
			3	0.045352	4	0.072249			
			4	0.033036	5	0.074781			
			5	0.025240	6	0.085819			
			6	0.020895	7	0.088276			
			7	0.017265	8	0.096615			
			8	0.022075	9	0.102221			
			10	0.037795	10	0.456610			
				BIAS CORR	0.280820				
				VAR COEFF	0.011051		0.044712		
				EFFICIENCY	99.99		99.97		
			13	10	8	1	0.726237	2	0.109109
2	0.072262	4				0.103734			
3	0.045280	5				0.074743			
4	0.033134	6				0.085977			
5	0.025170	7				0.088091			
6	0.030189	8				0.096896			
8	0.029923	9				0.102071			
10	0.037805	10				0.456868			
	BIAS CORR	0.280659							
	VAR COEFF	0.011053					0.044730		
	EFFICIENCY	99.97					99.93		
13	10	7				1	0.726432	2	0.109155
						2	0.072293	4	0.142029
			3	0.045266	6	0.121863			
			4	0.046027	7	0.087887			
			6	0.042221	8	0.097360			
			8	0.029942	9	0.101686			
			10	0.037820	10	0.457347			
				BIAS CORR	0.280537				
				VAR COEFF	0.011056		0.044757		
				EFFICIENCY	99.94		99.87		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
12	10	6	1	0.726940	2	0.109230
			2	0.072200	4	0.142253
			3	0.061890	6	0.169166
			5	0.052414	8	0.237570
			7	0.043336	9	0.101546
			10	0.043221	10	0.457954
			BIAS CORR	0.279908		
			VAR COEFF	0.011064		0.044805
			EFFICIENCY	99.88		99.76
12	10	5	1	0.727793	3	0.154214
			2	0.094040	5	0.155727
			4	0.080741	7	0.182154
			7	0.054101	9	0.145835
			10	0.043326	10	0.457870
			BIAS CORR	0.279561		
			VAR COEFF	0.011077		0.044887
			EFFICIENCY	99.75		99.58
12	10	4	1	0.761992	3	0.191835
			3	0.114287	6	0.204998
			6	0.074629	8	0.196045
			10	0.049092	10	0.502873
			BIAS CORR	0.278774		
			VAR COEFF	0.011110		0.045009
			EFFICIENCY	99.46		99.31
12	10	3	1	0.791042	3	0.297933
			4	0.136366	8	0.235768
			9	0.072593	10	0.506296
			BIAS CORR	0.271372		
			VAR COEFF	0.011189		0.045333
			EFFICIENCY	98.75		98.60
12	10	2	1	0.840472	6	0.421526
			6	0.159528	10	0.587469
			BIAS CORR	0.247027		
			VAR COEFF	0.011393		0.046131
			EFFICIENCY	96.98		96.90
13	10	1	1	1.000000	10	0.830369

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 12)

SHAPE PARAMETER = 1.90

N	M	L	I	LOCATION		I	SCALE	
				BIAS CORR			BIAS CORR	
				VAN COEFF			VAN COEFF	
				EFFICIENCY			EFFICIENCY	
12	7	7	1	0.163201		1	0.061224	
			2	0.012291		2	0.0776	
			3	89.40		3		
			4	0.727570		4	0.060479	
			5	0.012267		5	0.060009	
			6	0.045685		6	0.071040	
			7	0.037633		7	0.075090	
			8	0.075076		8	0.084167	
			9	0.070417		9	0.087761	
			10	0.017616		10	0.100477	
			11	0.016706		11	0.108776	
			12	0.043377		12	0.130777	
				BIAS CORR			BIAS CORR	
				VAN COEFF			VAN COEFF	
				EFFICIENCY			EFFICIENCY	
11	7	8	1	0.276091		1	0.044444	
			2	0.01107		2	100.30	
			3	100.00		3	67.15	
			4	97.46		4		
			5	0.727570		5	0.067317	
			6	0.012291		6	0.071041	
			7	0.045685		7	0.075113	
			8	0.037633		8	0.084173	
			9	0.075076		9	0.087777	
			10	0.070417		10	0.100477	
			11	0.017616		11	0.108776	
			12	0.016706		12	0.130777	
				BIAS CORR			BIAS CORR	
				VAN COEFF			VAN COEFF	
				EFFICIENCY			EFFICIENCY	
11	7	7	1	0.727570		1	0.121670	
			2	0.012291		2	0.111436	
			3	0.045685		3	0.087117	
			4	0.037633		4	0.090131	
			5	0.075076		5	0.100487	
			6	0.070417		6	0.104147	
			7	0.017616		7	0.107171	
			8	0.016706		8		
			9	0.043377		9		
			10	0.727570		10	0.044719	
			11	0.01107		11	57.77	
			12	100.00		12		
				BIAS CORR			BIAS CORR	
				VAN COEFF			VAN COEFF	
				EFFICIENCY			EFFICIENCY	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 19)

SHAPE PARAMETER = 1.90

L	M	L	1	LOCATION	1	SCALE
17	9	6	1	0.728111	2	0.121690
			2	0.072236	4	0.197119
			3	0.061944	6	0.132460
			5	0.092987	7	0.100240
			7	0.039178	8	0.106727
			9	0.044894	9	0.991343
				0.274094		0.049768
				0.011081		99.84
				99.92		
15	9	5	1	0.728070	3	0.170948
			2	0.074776	5	0.179387
			4	0.068961	7	0.143480
			6	0.091246	8	0.109136
			9	0.036677	9	0.993049
				0.273843		0.049877
				0.011043		99.72
				99.62		
13	9	4	1	0.730881	3	0.170831
			2	0.112084	5	0.173787
			4	0.043119	7	0.701441
			9	0.044164	9	0.649317
				0.272417		0.049710
				0.011121		99.82
				99.87		
11	9	3	1	0.731047	4	0.270430
			4	0.136864	7	0.748574
			9	0.072043	9	0.647488
				0.271872		0.090139
				0.011187		99.11
				98.96		
19	9	7	1	0.048477	8	0.394367
			4	0.194828	9	0.737474
				0.247021		0.080784
				0.011841		97.96
				97.10		
11	9	1	1	1.000000	9	0.992430

TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	P	L	I	LOCATION		SCALE	
				BIAS CORR		BIAS CORR	
				VAN COEFF		VAN COEFF	
				EFFICIENCY		EFFICIENCY	
11	0	0	1	0.163281		0.064275	
			2	0.012291		41.39	
			3	90.04			
			4	0.729470		0.064072	
			5	0.072506		0.064039	
			6	0.044413		0.074367	
			7	0.023161		0.041266	
			8	0.022940		0.042067	
			9	0.020819		0.104584	
			10	0.011394		0.110719	
11	0	1	1	0.066447		0.743377	
			2	0.267013			
			3	0.011107		0.064536	
			4	100.00		100.00	
			5	97.17		61.41	
			6	0.729401		0.064564	
			7	0.072614		0.074355	
			8	0.044401		0.041270	
			9	0.023169		0.042069	
			10	0.022933		0.104601	
11	0	2	1	0.020105		0.110717	
			2	0.061396		0.743371	
			3	0.264009			
			4	0.011108		0.064546	
			5	97.78		61.47	
			6	0.729776		0.134677	
			7	0.072636		0.124897	
			8	0.044471		0.042060	
			9	0.023171		0.104607	
			10	0.022993		0.110901	
11	0	3	1	0.063601		0.746112	
			2	0.266121			
			3	0.011107		0.064501	
			4	97.78		61.47	
			5	0.729776		0.134677	
			6	0.072636		0.124897	
			7	0.044471		0.042060	
			8	0.023171		0.104607	
			9	0.022993		0.110901	
			10	0.067087		0.190469	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 'O 13)

SHAPE PARAMETER = 1.90

L	M	L	I	LOCATION		I	SCALE	
11	0	0	0	0.062017		7	0.110267	
			0	0.072197		8	0.746071	
			BIAS CORR	0.266238				
			VAN COEFF	0.011116			0.056029	
			EFFICIENCY	99.00			99.04	
13	0	0	1	0.731040		7	0.136739	
			2	0.044909		4	0.177011	
			4	0.047049		6	0.209030	
			0	0.081790		8	0.740043	
			BIAS CORR	0.269420				
			VAN COEFF	0.011136			0.096100	
11	0	1		99.70			99.71	
			1	0.767424		3	0.230493	
			3	0.134431		6	0.794707	
			0	0.043100		8	0.000150	
			BIAS CORR	0.266190				
			VAN COEFF	0.011190			0.094763	
13	0	1		99.77			99.77	
			1	0.040477		5	0.311701	
			4	0.134920		8	0.095264	
			BIAS CORR	0.241077				
			VAN COEFF	0.011843			0.064740	
			EFFICIENCY	97.99			98.93	
11	0	1	1	1.000000		0	1.041137	
			BIAS CORR	0.163701				
			VAN COEFF	0.017741			0.084497	
			EFFICIENCY	90.33			94.16	
11	7	7	1	0.737074		1	0.067149	
			7	0.072661		7	0.076663	
			3	0.049467		3	1.041014	
			4	0.037007		4	0.047545	
			6	0.036004		5	0.111016	
			6	0.070677		6	0.111404	
			7	0.044474		7	0.421076	
			BIAS CORR	0.240036				
			VAN COEFF	0.011142			0.063540	



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.90

N	M	L	I	LOCATION		SCALE	
				EFFICIENCY (FIM/N)	100.00 98.64	100.00 93.71	
13	7	5	1		0.737239	2	0.111740
			2		0.077646	3	0.091811
			3		0.046077	4	0.097613
			4		0.037797	5	0.111722
			5		0.036666	6	0.117474
			7		0.079644	7	0.729272
				BIAS CORR	0.798307		
				VAN COEFF	0.011144		0.064009
				EFFICIENCY	99.98		99.96
13	7	6	1		0.737960	2	0.195609
			2		0.077663	4	0.144541
			3		0.067349	5	0.110479
			4		0.057747	6	0.117776
			7		0.079689	7	0.729596
				BIAS CORR	0.798270		
				VAN COEFF	0.011144		0.064244
				EFFICIENCY	99.93		99.90
13	7	8	1		0.733441	2	0.195770
			2		0.094743	4	0.200767
			3		0.081167	6	0.171074
			7		0.090484	7	0.727917
				BIAS CORR	0.797869		
				VAN COEFF	0.011163		0.064135
				EFFICIENCY	99.91		99.89
13	7	9	1		0.740337	3	0.217047
			2		0.127931	5	0.220977
			7		0.103776	7	0.706746
				BIAS CORR	0.797306		
				VAN COEFF	0.011704		0.064713
				EFFICIENCY	99.44		99.64
13	7	10	1		0.840477	4	0.346611
			6		0.199878	7	1.043756
				BIAS CORR	0.247077		
				VAN COEFF	0.011943		0.064370

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.90

L	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.79	99.09
13	7	1	1	1.000000	7	1.293611
				BIAS CORR	0.163281	
				VAR COEFF	0.012291	0.066997
				EFFICIENCY	90.69	96.13
11	6	0	1	0.739483	1	0.071869
			2	0.073104	2	0.041079
			3	0.049919	3	0.103087
			4	0.033198	4	0.117270
			5	0.029716	5	0.126334
			6	0.086984	6	1.191670
				BIAS CORR	0.248860	
				VAR COEFF	0.011194	0.074729
				EFFICIENCY	100.00	100.00
				EFF (M/N)	98.38	49.48
13	6	4	1	0.739486	2	0.131614
			2	0.073186	3	0.103088
			3	0.049901	4	0.117261
			4	0.046370	5	0.126369
			6	0.048907	6	1.192148
				BIAS CORR	0.248720	
				VAR COEFF	0.011198	0.074760
				EFFICIENCY	99.97	99.99
13	6	4	1	0.736327	2	0.100874
			2	0.049114	3	0.164407
			4	0.044874	5	0.124343
			6	0.048984	6	1.102461
				BIAS CORR	0.248643	
				VAR COEFF	0.011702	0.075810
				EFFICIENCY	99.88	99.89
13	6	7	1	0.770777	2	0.181033
			3	0.119481	4	0.234734
			6	0.113747	6	1.214674
				BIAS CORR	0.248448	
				VAR COEFF	0.011239	0.074878
				EFFICIENCY	99.60	99.78

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.90

N	M	L	I	LOCATION	I	SCALE
11	6	2	1	0.840472	3	0.317198
			6	0.199928	6	1.276076
			BIAS CORR	0.247027		
			VAN COEFF	0.011999		0.079166
			EFFICIENCY	98.79		99.41
11	6	1	1	1.000000	3	1.492974
			BIAS CORR	0.169781		
			VAN COEFF	0.012291		0.076676
			EFFICIENCY	91.08		97.52
11	9	4	1	0.742168	1	0.086796
			2	0.073448	2	0.107978
			3	0.046264	3	0.124867
			4	0.033237	4	0.138171
			9	0.104870	9	1.438311
			BIAS CORR	0.237740		
			VAN COEFF	0.011766		0.084808
			EFFICIENCY	100.00		100.00
			EFFIM/N	97.76		98.76
11	9	4	1	0.740903	2	0.196219
			2	0.073466	3	0.174881
			3	0.067818	4	0.138731
			9	0.123214	9	1.432104
			BIAS CORR	0.237411		
			VAN COEFF	0.011271		0.084858
			EFFICIENCY	99.49		99.74
11	9	3	1	0.742103	2	0.219478
			2	0.113697	4	0.201477
			9	0.144209	9	1.446197
			BIAS CORR	0.237280		
			VAN COEFF	0.011746		0.084931
			EFFICIENCY	99.73		99.86
12	9	2	1	0.874741	3	0.303974
			9	0.176204	9	1.611093
			BIAS CORR	0.237118		
			VAN COEFF	0.011978		0.090117

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.66
11	2	1	1	1.000000	3	1.710277
				BIAS CORR		0.091178
				VAR COEFF		98.50
				EFFICIENCY		
11	4	4	1	0.746731	1	0.106934
			2	0.074060	2	0.133936
			3	0.046941	3	0.134048
			4	0.132668	4	1.024641
				BIAS CORR		0.112911
				VAR COEFF		100.00
				EFFICIENCY		96.89
				EFF (M/N)		30.94
11	4	3	1	0.747385	2	0.144248
			2	0.098346	3	0.134084
			4	0.136269	4	1.030813
				BIAS CORR		0.112587
				VAR COEFF		99.93
				EFFICIENCY		
11	4	2	1	0.808680	2	0.268070
			4	0.141370	4	1.410343
				BIAS CORR		0.112677
				VAR COEFF		99.83
				EFFICIENCY		
11	4	1	1	1.000000	4	2.069168
				BIAS CORR		0.113493
				VAR COEFF		99.17
				EFFICIENCY		
11	3	3	1	0.746570	1	0.141081
			2	0.074078	2	0.176178
			3	0.168893	3	2.416713
				BIAS CORR		0.180843
				VAR COEFF		100.00
				EFFICIENCY		72.92
				EFF (M/N)		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
11	3	2	1	0.791618	2	0.255818
			2	0.208982	3	2.418674
				BIAS CORR		
				0.209249		
				VAR COEFF		0.150676
13	3	1		EFFICIENCY		99.91
			1	1.000000	3	2.609020
				BIAS CORR		
				0.163281		
				VAR COEFF		0.191137
13	2	2		EFFICIENCY		99.61
			1	0.772087	1	0.207167
			2	0.227113	2	7.499230
				BIAS CORR		
				0.184709		0.227243
13	2	1		VAR COEFF		100.00
				0.011771		19.12
				EFFICIENCY		
			1	1.000000	2	3.976147
				BIAS CORR		
13	1	1		0.163281		0.227930
				VAR COEFF		94.87
				0.012291		
				EFFICIENCY		
			1	1.000000	1	6.124407
13	1	1		BIAS CORR		
				0.163281		0.460446
				VAR COEFF		100.00
				0.012291		7.49
				EFFICIENCY		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
11	11	11	1	0.597049	1	0.032341			
			2	0.092080	2	0.044328			
			3	0.063523	3	0.054051			
			4	0.049125	4	0.062816			
			5	0.040649	5	0.071206			
			6	0.034783	6	0.079591			
			7	0.030600	7	0.088338			
			8	0.027223	8	0.097870			
			9	0.024440	9	0.109033			
			10	0.021864	10	0.123435			
			11	0.018672	11	0.157016			
BIAS CORR				0.441758					
VAR COEFF				0.014390		0.029970			
EFFICIENCY				100.00		100.00			
EFF(M/N)				100.00		100.00			
11	11	17	1	0.597338	2	0.063338			
			2	0.092153	3	0.054017			
			3	0.063461	4	0.062844			
			4	0.049368	5	0.071207			
			5	0.040272	6	0.079673			
			6	0.031847	7	0.088356			
			7	0.040720	8	0.097907			
			8	0.024233	9	0.109068			
			10	0.021439	10	0.123477			
			11	0.018672	11	0.157069			
			BIAS CORR				0.441278		
VAR COEFF				0.014398		0.029980			
EFFICIENCY				99.99		99.97			
11	11	4	1	0.597687	2	0.088627			
			2	0.092107	4	0.050682			
			3	0.063780	5	0.070487			
			4	0.048749	6	0.074863			
			5	0.039318	7	0.088281			
			7	0.062320	8	0.094023			
			9	0.033388	9	0.109098			
			10	0.021793	10	0.123354			
			11	0.018701	11	0.157158			
			BIAS CORR				0.440726		
			VAR COEFF				0.014406		0.029998

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			EFFICIENCY	99.89		99.91
11	11	8	1	0.598096	2	0.088630
			2	0.092339	4	0.127054
			3	0.063312	6	0.114064
			4	0.070119	7	0.087684
			6	0.071048	8	0.098492
			8	0.055890	9	0.109077
			10	0.030978	10	0.123694
			11	0.018659	11	0.157307
			BIAS CORR	0.439914		
			VAR COEFF	0.014416		0.030027
			EFFICIENCY	99.82		99.81
11	11	7	1	0.598873	3	0.130742
			2	0.092174	5	0.144721
			3	0.087849	7	0.129729
			5	0.083429	8	0.097277
			7	0.067432	9	0.109803
			9	0.051022	10	0.123749
			11	0.024169	11	0.157991
			BIAS CORR	0.438188		
			VAR COEFF	0.014434		0.030080
			EFFICIENCY	99.70		99.63
11	11	6	1	0.600227	3	0.131076
			2	0.122124	5	0.145173
			4	0.107943	7	0.127972
			6	0.088489	9	0.144489
			9	0.067006	10	0.123827
			11	0.024234	11	0.158142
			BIAS CORR	0.436784		
			VAR COEFF	0.014464		0.030175
			EFFICIENCY	99.49		99.31
11	11	5	1	0.602480	4	0.218496
			2	0.127600	7	0.216499
			4	0.122864	9	0.190876
			7	0.096829	10	0.124979
			10	0.039212	11	0.199773
			BIAS CORR	0.427161		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

A	M	L	I	LOCATION	I	SCALE
				VAR COEFF		
				EFFICIENCY		
				0.014924		0.090350
				99.08		98.75
11	11	4	1	0.649330	5	0.276825
			3	0.161376	8	0.243400
			6	0.129763	10	0.166047
			10	0.063331	11	0.160562
				BIAS CORR		
				0.424303		
				VAR COEFF		
				0.014619		0.030689
				EFFICIENCY		97.66
11	11	5	1	0.684096	6	0.344101
			4	0.210080	9	0.282870
			9	0.109825	11	0.197085
				BIAS CORR		
				0.412359		
				VAR COEFF		
				0.014821		0.031473
				EFFICIENCY		95.22
11	11	2	1	0.735014	8	0.518075
			6	0.244986	11	0.237650
				BIAS CORR		
				0.372250		
				VAR COEFF		
				0.013336		0.033852
				EFFICIENCY		88.13
11	11	1	1	1.000000	4	0.794911
				BIAS CORR		
				0.226261		
				VAR COEFF		
				0.017805		0.043301
				EFFICIENCY		67.21
11	10	1'	1	0.998650	1	0.035265
			2	0.042374	2	0.048755
			3	0.063685	3	0.054386
			4	0.044254	4	0.064136
			5	0.040730	5	0.078117
			6	0.034875	6	0.087558
			7	0.030606	7	0.096497
			8	0.027370	8	0.108364
			9	0.024317	9	0.118275
			10	0.020183	10	0.285860
				BIAS CORR		
				0.432074		
				VAR COEFF		
				0.014424		0.032476



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		EFF(M/N)
				99.73		90.88
11	10	9	1	0.598943	2	0.069904
			2	0.092398	3	0.059350
			3	0.063623	4	0.069170
			4	0.049502	5	0.078120
			5	0.040356	6	0.087596
			6	0.051943	7	0.096520
			8	0.040870	8	0.108413
			9	0.024110	9	0.118266
			10	0.038254	10	0.285968
				BIAS CORR		
				0.431597		
				VAR COEFF		0.032989
				0.014436		99.96
				EFFICIENCY		
				99.95		
11	10	8	1	0.599297	2	0.047448
			2	0.092353	4	0.099761
			3	0.063942	5	0.077878
			4	0.048879	6	0.087865
			5	0.059452	7	0.096443
			7	0.062454	8	0.108548
			9	0.035525	9	0.118305
			10	0.038097	10	0.286152
				BIAS CORR		
				0.431026		
				VAR COEFF		0.033010
				0.014445		99.90
				EFFICIENCY		
				99.89		
11	10	7	1	0.599699	2	0.097467
			2	0.092584	4	0.139680
			3	0.063473	6	0.125401
			4	0.070297	7	0.095796
			6	0.071183	8	0.109074
			8	0.055923	9	0.118292
			10	0.046842	10	0.286475
				BIAS CORR		
				0.430245		
				VAR COEFF		0.033045
				0.014455		99.79
				EFFICIENCY		
				99.82		
11	10	6	1	0.600623	3	0.143808
			2	0.122714	5	0.159064

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.102956	7	0.137676
			6	0.071300	8	0.107759
			8	0.055997	9	0.119109
			10	0.046910	10	0.286911
			BIAS CORR	0.430287		
			VAR COEFF	0.014479		0.033110
			EFFICIENCY	99.66		99.60
11	10	5	1	0.602480	3	0.144230
			2	0.122600	5	0.159544
			4	0.122869	7	0.200717
			7	0.096839	9	0.163674
			10	0.055212	10	0.287573
			BIAS CORR	0.427161		
			VAR COEFF	0.014524		0.033230
			EFFICIENCY	99.35		99.24
11	10	4	1	0.64533	4	0.240491
			3	0.161376	7	0.238132
			6	0.129763	9	0.164737
			10	0.063531	10	0.289350
			BIAS CORR	0.424303		
			VAR COEFF	0.014619		0.033437
			EFFICIENCY	98.70		98.62
11	10	3	1	0.684096	5	0.304669
			4	0.210080	8	0.267550
			9	0.105825	10	0.336219
			BIAS CORR	0.412359		
			VAR COEFF	0.014821		0.033840
			EFFICIENCY	97.35		97.45
11	10	2	1	0.755014	6	0.468481
			6	0.244986	10	0.418123
			BIAS CORR	0.372250		
			VAR COEFF	0.015336		0.035223
			EFFICIENCY	94.09		93.62
11	10	1	1	1.000000	9	0.799911
			BIAS CORR	0.226261		
			VAR COEFF	0.017805		0.043301

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				81.04		76.14
				EFFICIENCY		
11	9	9	1	0.601113	1	0.029517
			2	0.092688	2	0.054058
			3	0.063967	3	0.066197
			4	0.049382	4	0.076208
			5	0.040952	5	0.087309
			6	0.034808	6	0.095610
			7	0.031073	7	0.110118
			8	0.026948	8	0.116057
			9	0.059068	9	0.418716
				BIAS CORR		
				0.420361		
				VAR COEFF		0.036666
				0.014489		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		91.74
				99.32		
11	9	8	1	0.601427	2	0.077561
			2	0.092711	3	0.066161
			3	0.064052	4	0.076248
			4	0.049282	5	0.087317
			5	0.041225	6	0.095657
			6	0.034420	7	0.110149
			7	0.046866	8	0.116110
			9	0.070014	9	0.418887
				BIAS CORR		
				0.419695		
				VAR COEFF		0.036681
				0.014496		
				EFFICIENCY		99.96
				99.95		
11	9	7	1	0.601749	2	0.108273
			2	0.092714	4	0.110358
			3	0.064223	5	0.087053
			4	0.049003	6	0.095962
			5	0.059638	7	0.110073
			7	0.062646	8	0.116265
			9	0.070027	9	0.419146
				BIAS CORR		
				0.419348		
				VAR COEFF		0.036707
				0.014504		
				EFFICIENCY		99.89
				99.90		
11	9	6	1	0.602316	2	0.108308
			2	0.092697	4	0.154999

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			3	0.088384	6	0.137936
			5	0.083821	7	0.109367
			7	0.062712	8	0.116863
			9	0.070070	9	0.419510
			BIAS CORR	0.419176		
			VAR COEFF	0.014517		0.036751
			EFFICIENCY	99.80		99.77
11	9	5	1	0.603688	3	0.159681
			2	0.122816	5	0.176126
			4	0.103494	7	0.155161
			6	0.088839	8	0.115424
			9	0.081163	9	0.420905
			BIAS CORR	0.417712		
			VAR COEFF	0.014553		0.036828
			EFFICIENCY	99.56		99.56
11	9	4	1	0.645668	3	0.160171
			3	0.161528	5	0.176682
			5	0.111216	7	0.222741
			9	0.081586	9	0.469393
			BIAS CORR	0.417782		
			VAR COEFF	0.014627		0.036966
			EFFICIENCY	99.06		99.19
11	9	3	1	0.684096	4	0.266769
			4	0.210080	7	0.264399
			9	0.105825	9	0.472677
			BIAS CORR	0.412359		
			VAR COEFF	0.014821		0.037222
			EFFICIENCY	97.76		98.51
11	9	2	1	0.755014	6	0.415209
			6	0.244986	9	0.526844
			BIAS CORR	0.372250		
			VAR COEFF	0.015336		0.038129
			EFFICIENCY	94.47		96.16
11	9	1	1	1.000000	9	0.799911
			BIAS CORR	0.226261		
			VAR COEFF	0.017805		0.043301

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				81.37		84.68
				EFFICIENCY		
11	8	8	1	0.604506	1	0.044373
			2	0.093235	2	0.061044
			3	0.064205	3	0.073549
			4	0.049800	4	0.086919
			5	0.040798	5	0.095256
			6	0.035675	6	0.112982
			7	0.030248	7	0.116060
			8	0.081532	8	0.562751
				BIAS CORR		
				0.406857		
				VAR COEFF		0.041290
				0.014571		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		72.58
				98.76		
11	8	7	1	0.604793	2	0.087439
			2	0.093306	3	0.073511
			3	0.064143	4	0.086969
			4	0.050040	5	0.095268
			5	0.040430	6	0.113042
			6	0.052542	7	0.116097
			8	0.094745	8	0.563015
				BIAS CORR		
				0.406393		
				VAR COEFF		0.041309
				0.014578		
				EFFICIENCY		99.95
				99.95		
11	8	6	1	0.605171	2	0.121573
			2	0.093423	4	0.124878
			3	0.063990	5	0.094980
			4	0.070833	6	0.113354
			6	0.071792	7	0.116017
			8	0.094791	8	0.563495
				BIAS CORR		
				0.406125		
				VAR COEFF		0.041341
				0.014587		
				EFFICIENCY		99.88
				99.88		
11	8	5	1	0.606111	2	0.121623
			2	0.123296	4	0.173602
			4	0.103760	6	0.159209
			6	0.071910	7	0.115252
			8	0.094923	8	0.564571

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
11	8	4		BIAS CORR		
				VAR COEFF		0.041394
				EFFICIENCY		99.75
			1	0.647859	2	0.121841
			3	0.140045	4	0.173921
			5	0.102917	6	0.223235
			8	0.109178	8	0.616281
				BIAS CORR		
				VAR COEFF		0.041498
				EFFICIENCY		99.50
11	8	3	1	0.684184	3	0.226544
			4	0.190707	6	0.266527
			8	0.125109	8	0.618963
				BIAS CORR		
				VAR COEFF		0.041678
				EFFICIENCY		99.07
			1	0.755014	5	0.378720
			6	0.244986	8	0.675214
				BIAS CORR		
				VAR COEFF		0.042276
				EFFICIENCY		97.67
11	8	1	1	1.000000	8	0.922293
				BIAS CORR		
				VAR COEFF		0.045712
				EFFICIENCY		90.33
			1	0.609076	1	0.050769
			2	0.093836	2	0.069041
			3	0.064832	3	0.085285
			4	0.049694	4	0.095683
			5	0.041984	5	0.115888
			6	0.034573	6	0.118546
11	7	7	7	0.106004	7	0.724924
				BIAS CORR		
				VAR COEFF		0.047252
				EFFICIENCY		100.00
				EFF(M/N)		63.43
			1	0.609076	1	0.050769
			2	0.093836	2	0.069041
			3	0.064832	3	0.085285
			4	0.049694	4	0.095683
			5	0.041984	5	0.115888

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
11	7	6	1	0.609401	2	0.099246			
			2	0.093839	3	0.085248			
			3	0.065003	4	0.095745			
			4	0.049414	5	0.115913			
			5	0.060478	6	0.118617			
			7	0.121865	7	0.725294			
			BIAS CORR		0.391159				
			VAR COEFF		0.014689				
			EFFICIENCY		99.95				
					0.047278				
		99.95							
11	7	5	1	0.609977	2	0.138847			
			2	0.093823	3	0.139721			
			3	0.089368	5	0.115600			
			5	0.084865	6	0.119031			
			7	0.121968	7	0.725803			
			BIAS CORR		0.390969				
			VAR COEFF		0.014702				
			EFFICIENCY		99.85				
					0.047321				
					99.86				
11	7	4	1	0.611528	2	0.138948			
			2	0.124379	4	0.199082			
			4	0.124436	6	0.174828			
			7	0.139656	7	0.726290			
			BIAS CORR		0.390093				
			VAR COEFF		0.014742				
			EFFICIENCY		99.58				
					0.047399				
					99.69				
			11	7	3	1	0.655397	3	0.204215
3	0.184427	5				0.226866			
7	0.160177	7				0.783227			
BIAS CORR		0.389098							
VAR COEFF		0.014850							
EFFICIENCY		98.86							
		0.047510							
		99.46							
11	7	2				1	0.755014	4	0.341606
						6	0.244986	7	0.842139
			BIAS CORR		0.372250				
			VAR COEFF		0.015336				
			EFFICIENCY		95.73				
					0.047936				
					98.57				
			11	7	1	1	1.000000	7	1.057582

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.226261		
				0.017805		0.050320
				82.45		93.90
11	6	6	1	0.615136	1	0.058902
			2	0.094828	2	0.081093
			3	0.065072	3	0.096423
			4	0.051006	4	0.118274
			5	0.040942	5	0.123872
			6	0.133016	6	0.914846
				BIAS CORR		
				0.374114		
				VAR COEFF		0.055229
				EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		54.27
				57.05		54.27
11	5	5	1	0.615524	2	0.116148
			2	0.094948	3	0.096386
			3	0.064917	4	0.118358
			4	0.072063	5	0.123906
			6	0.152548	6	0.915700
				BIAS CORR		
				0.373825		
				VAR COEFF		0.055263
				EFFICIENCY		99.94
				99.93		99.94
11	6	4	1	0.616492	2	0.160940
			2	0.125256	4	0.168103
			4	0.105470	5	0.123558
			6	0.152783	6	0.916500
				BIAS CORR		
				0.373787		
				VAR COEFF		0.055318
				EFFICIENCY		99.84
				99.77		99.84
11	6	3	1	0.655426	2	0.161064
			3	0.164615	4	0.231574
			6	0.175959	6	0.976713
				BIAS CORR		
				0.373623		
				VAR COEFF		0.055407
				EFFICIENCY		99.68
				99.25		99.68
11	6	2	1	0.755014	3	0.300836
			6	0.244986	6	1.039021



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR VAR COEFF EFFICIENCY		
				0.372250 0.015336 96.69		0.055730 99.10
11	6	1	1	1.000000	6	1.216296
				BIAS CORR VAR COEFF EFFICIENCY		
				0.226261 0.017805 83.28		0.057380 96.25
11	5	5	1	0.623390	1	0.070606
			2	0.095845	2	0.095439
			3	0.066454	3	0.120137
			4	0.050444	4	0.132095
			5	0.163865	5	1.148132
				BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)		
				0.354278 0.015028 100.00 95.76		0.066445 100.00 45.10
11	5	4	1	0.623991	2	0.137474
			2	0.095830	3	0.120111
			3	0.091329	4	0.132207
			5	0.188850	5	1.148916
				BIAS CORR VAR COEFF EFFICIENCY		
				0.354052 0.015042 99.90		0.066494 99.93
11	5	3	1	0.666637	2	0.193340
			3	0.143783	4	0.194235
			5	0.189581	5	1.150017
				BIAS CORR VAR COEFF EFFICIENCY		
				0.354599 0.015106 99.42		0.066579 99.80
11	5	2	1	0.733914	3	0.284691
			5	0.266086	5	1.218696
				BIAS CORR VAR COEFF EFFICIENCY		
				0.354278 0.015355 97.87		0.066766 99.52
11	5	1	1	1.000000	5	1.413682

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.226261		
				0.017805		0.057935
				84.40		97.81
11	4	4	1	0.634842	1	0.087222
			2	0.097772	2	0.120969
			3	0.066800	3	0.143046
			4	0.200586	4	1.453433
				BIAS CORR		
				0.331363		
				VAR COEFF		0.083370
				0.015308		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		35.95
				94.01		
11	4	3	1	0.635869	2	0.172927
			2	0.128965	3	0.143032
			4	0.235166	4	1.454686
				BIAS CORR		
				0.331257		
				VAR COEFF		0.083445
				0.015334		
				EFFICIENCY		99.91
				99.83		
11	4	2	1	0.714939	2	0.239506
			4	0.285461	4	1.530074
				BIAS CORR		
				0.331904		
				VAR COEFF		0.083566
				0.015489		
				EFFICIENCY		99.77
				98.83		
11	4	1	1	1.000000	4	1.676897
				BIAS CORR		
				0.226261		
				VAR COEFF		0.084361
				0.017805		
				EFFICIENCY		98.83
				85.98		
11	3	3	1	0.651925	1	0.115768
			2	0.099801	2	0.156379
			3	0.248274	3	1.891995
				BIAS CORR		
				0.304274		
				VAR COEFF		0.111830
				0.015723		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		26.80
				91.52		
11	3	2	1	0.696458	2	0.225402
			3	0.503542	3	1.893979

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.304642		
				0.015792		0.111967
				88.56		99.88
11	3	1	1	1.000000	3	2.064059
				0.226261		
				0.017809		0.112429
				88.31		99.47
	2	2	1	0.679693	1	0.168826
			2	0.320307	2	2.630952
				0.270883		
				0.016407		0.169983
				100.00		100.00
				87.71		17.67
11	2	1	1	1.000000	2	2.735443
				0.226261		
				0.017809		0.169864
				92.19		99.83
11	1	1	1	1.000000	1	4.419674
				0.226261		
				0.017809		0.347746
				100.00		100.00
				80.82		8.62
12	12	12	1	0.940878	1	0.028595
			2	0.089869	2	0.034094
			3	0.061728	3	0.047945
			4	0.047948	4	0.055098
			5	0.039299	5	0.062239
			6	0.033917	6	0.069274
			7	0.029581	7	0.076437
			8	0.026288	8	0.084027
			9	0.023764	9	0.092381
			10	0.021491	10	0.102271
			11	0.019377	11	0.115105
			12	0.016699	12	0.145445
				0.492339		
				0.012936		0.027457

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		
				EFF(M/N)		100.00
12	12	11	1	0.591116	2	0.056200
			2	0.089841	3	0.047511
			3	0.061904	4	0.055124
			4	0.047287	5	0.062224
			5	0.039748	6	0.069308
			6	0.032943	7	0.076433
			7	0.044481	8	0.084064
			9	0.035323	9	0.092396
			10	0.021249	10	0.102300
			11	0.019455	11	0.115135
			12	0.016653	12	0.145483
				BIAS CORR		
				VAR COEFF		0.027459
				EFFICIENCY		99.97
12	12	12	1	0.591332	2	0.078042
			2	0.090043	4	0.079873
			3	0.061483	5	0.061957
			4	0.048129	6	0.069614
			5	0.038519	7	0.076216
			6	0.049793	8	0.084295
			8	0.053593	9	0.092307
			10	0.031181	10	0.102391
			11	0.019244	11	0.115172
			12	0.016682	12	0.145545
				BIAS CORR		
				VAR COEFF		0.027471
				EFFICIENCY		99.93
12	12	9	1	0.591696	2	0.078029
			2	0.089837	4	0.111143
			3	0.062213	6	0.100117
			4	0.046832	7	0.075355
			5	0.057161	8	0.085035
			7	0.059986	9	0.091990
			9	0.048663	10	0.102615
			11	0.026981	11	0.115204
			12	0.016632	12	0.145646

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.430736		
			VAR COEFF	0.012953		0.027489
			EFFICIENCY	99.87		99.86
12	12	8	1	0.592108	2	0.078054
			2	0.089804	4	0.111241
			3	0.085048	6	0.140689
			5	0.080567	8	0.119964
			7	0.060061	9	0.091063
			9	0.048702	10	0.103184
			11	0.026991	11	0.115247
			12	0.016643	12	0.145827
			BIAS CORR	0.430652		
			VAR COEFF	0.012964		0.027523
			EFFICIENCY	99.78		99.74
12	12	7	1	0.592985	3	0.115197
			2	0.118612	5	0.126157
			4	0.099601	7	0.156332
			6	0.068583	9	0.130065
			8	0.053782	10	0.101568
			10	0.044931	11	0.115909
			12	0.021505	12	0.146047
			BIAS CORR	0.429298		
			VAR COEFF	0.012984		0.027573
			EFFICIENCY	99.63		99.56
12	12	6	1	0.594451	3	0.144637
			2	0.118923	6	0.169323
			4	0.118226	8	0.173898
			7	0.092437	10	0.140895
			10	0.054397	11	0.115446
			12	0.021566	12	0.146641
			BIAS CORR	0.427393		
			VAR COEFF	0.013015		0.027668
			EFFICIENCY	99.39		99.22
12	12	5	1	0.597046	4	0.191147
			2	0.119439	7	0.187770
			4	0.118610	9	0.195473
			7	0.109231	11	0.153340

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			11	0.055675	12	0.147329
			BIAS CORR	0.416303		
			VAR COEFF	0.013072		0.027845
			EFFICIENCY	98.96		98.59
12	12	4	1	0.638468	5	0.290101
			3	0.156686	9	0.260098
			6	0.123525	11	0.155344
			10	0.081321	12	0.149154
			BIAS CORR	0.409082		
			VAR COEFF	0.013153		0.028202
			EFFICIENCY	98.35		97.34
12	12	3	1	0.676013	6	0.358977
			4	0.202067	10	0.295469
			9	0.121920	12	0.182982
			BIAS CORR	0.396821		
			VAR COEFF	0.013334		0.028901
			EFFICIENCY	97.01		94.99
12	12	2	1	0.745484	8	0.550167
			6	0.254516	12	0.241439
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.031257
			EFFICIENCY	93.60		87.83
12	12	1	1	1.000000	10	0.774875
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.039737
			EFFICIENCY	80.25		69.08
12	11	11	1	0.592253	1	0.031191
			2	0.090074	2	0.042618
			3	0.061875	3	0.051910
			4	0.047638	4	0.059921
			5	0.039410	5	0.068097
			6	0.033554	6	0.075194
			7	0.029663	7	0.083531
			8	0.026264	8	0.090881
			9	0.023921	9	0.101714
			10	0.021354	10	0.109813

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			11	0.033992	11	0.264102
			BIAS CORR	0.423759		
			VAR COEFF	0.012966		0.029953
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.77		91.65
12	11	10	1	0.592491	2	0.061279
			2	0.090046	3	0.051875
			3	0.062051	4	0.059951
			4	0.047378	5	0.068086
			5	0.039859	6	0.075233
			6	0.032980	7	0.083529
			7	0.044550	8	0.090923
			9	0.035464	9	0.101733
			10	0.021112	10	0.109846
			11	0.034068	11	0.264177
			BIAS CORR	0.423348		
			VAR COEFF	0.012971		0.029962
			EFFICIENCY	99.96		99.97
12	11	9	1	0.592711	2	0.085130
			2	0.090250	4	0.086976
			3	0.061630	5	0.067798
			4	0.048221	6	0.075570
			5	0.038628	7	0.083295
			6	0.049876	8	0.091179
			8	0.053696	9	0.101640
			10	0.031106	10	0.109949
			11	0.033882	11	0.264287
			BIAS CORR	0.422849		
			VAR COEFF	0.012976		0.029976
			EFFICIENCY	99.92		99.93
12	11	8	1	0.593068	2	0.085121
			2	0.090041	4	0.121202
			3	0.062359	6	0.108956
			4	0.046922	7	0.082359
			5	0.057291	8	0.091994
			7	0.060073	9	0.101300
			9	0.048719	10	0.110200
			11	0.041527	11	0.264436

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
12	11	7		BIAS CORR	0.422175	
				VAR COEFF	0.012983	0.029998
				EFFICIENCY	99.87	99.85
			1	0.593561	2	0.085159
			2	0.090009	4	0.121323
			3	0.085238	6	0.153315
			5	0.080738	8	0.130183
			7	0.060148	9	0.100300
			9	0.048758	10	0.110832
			11	0.041547	11	0.264685
				BIAS CORR	0.422085	
				VAR COEFF	0.012994	0.030038
				EFFICIENCY	99.79	99.72
12	11	6	1	0.594672	3	0.125645
			2	0.118970	5	0.137591
			4	0.099889	7	0.170134
			6	0.084546	9	0.142531
			9	0.060220	10	0.109086
			11	0.041703	11	0.265644
				BIAS CORR	0.421204	
				VAR COEFF	0.013021	0.030096
				EFFICIENCY	99.58	99.53
			1	0.597046	3	0.157873
			2	0.119439	6	0.184632
			4	0.118610	8	0.189679
			7	0.109231	10	0.152436
			11	0.055675	11	0.265817
				BIAS CORR	0.416303	
				VAR COEFF	0.013072	0.030213
				EFFICIENCY	99.19	99.14
12	11	4	1	0.638468	4	0.208588
			3	0.156686	7	0.204583
			6	0.123525	9	0.212959
			10	0.081321	11	0.307308
				BIAS CORR	0.409082	
				VAR COEFF	0.013153	0.030415
				EFFICIENCY	98.58	98.48



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	0.676013	5	0.316764
			4	0.202067	9	0.283653
			9	0.121920	11	0.311572
		BIAS CORR		0.396821		
				0.013334		0.030839
				97.24		97.13
12	11	2	1	0.745484	7	0.474061
			6	0.254516	11	0.387974
				0.355904		
		BIAS CORR		0.013820		0.032132
				93.82		93.22
12	11	1	1	1.000000	10	0.774875
				0.215286		
				0.016120		0.039737
		BIAS CORR		80.43		75.38
12	10	10	1	0.594327	1	0.034282
			2	0.090401	2	0.046995
			3	0.062030	3	0.056604
			4	0.047914	4	0.066874
			5	0.039358	5	0.073324
			6	0.033832	6	0.084121
			7	0.029419	7	0.089474
			8	0.026797	8	0.103781
			9	0.023415	9	0.106921
			10	0.052447	10	0.385171
		BIAS CORR		0.413442		
				0.013011		0.032967
				100.00		100.00
				99.42		83.27
12	10	9	1	0.594544	2	0.067507
			2	0.090500	3	0.056567
			3	0.061878	4	0.066908
			4	0.048276	5	0.073314
			5	0.038844	6	0.084167
			6	0.049912	7	0.089473
			8	0.040422	8	0.103831

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
12	10	3	9	0.023016	9	0.106944
			10	0.052609	10	0.385294
			BIAS CORR	0.413135		
			VAR COEFF	0.013016		0.032977
			EFFICIENCY	99.96		99.97
			1	0.594772	2	0.093520
			2	0.090573	4	0.096382
			3	0.061787	5	0.073002
			4	0.048489	6	0.084539
			5	0.038585	7	0.089221
12	10	7	6	0.050050	8	0.104116
			8	0.053850	9	0.106844
			10	0.061895	10	0.385531
			BIAS CORR	0.412579		
			VAR COEFF	0.013022		0.032914
			EFFICIENCY	99.92		99.92
			1	0.595081	2	0.093515
			2	0.090695	4	0.133243
			3	0.061603	6	0.120494
			4	0.068068	7	0.088216
12	10	6	6	0.068738	8	0.105002
			8	0.053910	9	0.106481
			10	0.061907	10	0.385969
			BIAS CORR	0.412409		
			VAR COEFF	0.013029		0.033020
			EFFICIENCY	99.87		99.84
			1	0.595916	2	0.093564
			2	0.119187	4	0.133334
			4	0.100072	6	0.168023
			6	0.068843	8	0.145922
12	10	5	8	0.054001	9	0.105416
			10	0.061982	10	0.386924
			BIAS CORR	0.412496		
			VAR COEFF	0.013048		0.033065
			EFFICIENCY	99.72		99.70
			1	0.597399	3	0.138340
			2	0.119500	5	0.151079

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.118787	7	0.187650
			7	0.092766	9	0.153585
			10	0.071546	10	0.386152
			BIAS CORR	0.410530		
			VAR COEFF	0.013080		0.033147
			EFFICIENCY	99.47		99.46
12	10	4	1	0.638468	3	0.173438
			3	0.156686	6	0.202580
			6	0.123525	8	0.208564
			10	0.081321	10	0.431957
			BIAS CORR	0.409082		
			VAR COEFF	0.013153		0.033268
			EFFICIENCY	98.92		99.10
12	10	3	1	0.676013	5	0.287332
			4	0.202067	8	0.247939
			9	0.121920	10	0.435858
			BIAS CORR	0.396821		
			VAR COEFF	0.013334		0.033562
			EFFICIENCY	97.58		98.23
12	10	2	1	0.745484	6	0.426174
			6	0.254516	10	0.521331
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.034414
			EFFICIENCY	94.15		95.79
12	10	1	1	1.000000	10	0.774875
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.039737
			EFFICIENCY	80.72		82.96
12	9	9	1	0.597156	1	0.038155
			2	0.090759	2	0.051678
			3	0.062507	3	0.064419
			4	0.047742	4	0.071117
			5	0.040004	5	0.085261
			6	0.033331	6	0.088161
			7	0.030576	7	0.107279
			8	0.025721	8	0.105623

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION BY R M L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			9	0.072204	9	0.514531
			BIAS CORR	0.401629		
			VAR COEFF	0.013073		0.036659
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.95		74.88
12	9	5	1	0.597385	2	0.074509
			2	0.090731	3	0.064380
			3	0.062678	4	0.071157
			4	0.047488	5	0.085254
			5	0.040441	6	0.088214
			6	0.032771	7	0.107284
			7	0.045154	8	0.105679
			9	0.083352	9	0.514701
			BIAS CORR	0.401241		
			VAR COEFF	0.013078		0.036672
			EFFICIENCY	99.96		99.96
12	9	7	1	0.597649	2	0.104123
			2	0.090700	4	0.104708
			3	0.062893	5	0.084908
			4	0.047136	6	0.088640
			5	0.057681	7	0.107010
			7	0.060560	8	0.106005
			9	0.083380	9	0.514873
			BIAS CORR	0.401014		
			VAR COEFF	0.013083		0.036693
			EFFICIENCY	99.92		99.91
12	9	6	1	0.598147	2	0.104131
			2	0.090668	4	0.147599
			3	0.085877	6	0.130472
			5	0.081236	7	0.105865
			7	0.060635	8	0.107038
			9	0.083436	9	0.514990
			BIAS CORR	0.400914		
			VAR COEFF	0.013094		0.036728
			EFFICIENCY	99.84		99.81
12	9	5	1	0.599291	3	0.153106
			2	0.119881	5	0.166994

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.100587	7	0.150289
			6	0.085082	8	0.103929
			9	0.095159	9	0.517064
			BIAS CORR	0.399941		
			VAR COEFF	0.013122		0.036781
			EFFICIENCY	99.63		99.67
12	9	4	1	0.639895	3	0.153341
			3	0.157183	5	0.167309
			6	0.107230	7	0.208493
			9	0.095692	9	0.563181
			BIAS CORR	0.400192		
			VAR COEFF	0.013183		0.036859
			EFFICIENCY	99.17		99.46
12	9	3	1	0.676013	4	0.252694
			4	0.202067	7	0.249354
			9	0.121920	9	0.566287
			BIAS CORR	0.396821		
			VAR COEFF	0.013334		0.037062
			EFFICIENCY	98.04		98.91
12	9	2	1	0.745484	5	0.385844
			6	0.254516	9	0.658756
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.037692
			EFFICIENCY	94.60		97.26
12	9	1	1	1.000000	9	0.885768
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.041248
			EFFICIENCY	81.10		88.87
12	8	8	1	0.600837	1	0.042675
			2	0.091453	2	0.059228
			3	0.062463	3	0.069097
			4	0.048692	4	0.085296
			5	0.039228	5	0.087848
			6	0.034993	6	0.110889
			7	0.028958	7	0.106390
			8	0.093375	8	0.657259

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.388308		
				0.013155		0.041285
				100.00		100.00
				98.34		66.49
12	8	7	1	0.601046	2	0.084767
			2	0.091549	3	0.069055
			3	0.062315	4	0.085346
			4	0.049044	5	0.087842
			5	0.038728	6	0.110956
			6	0.050787	7	0.106395
			8	0.106531	8	0.657525
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.388015		0.041301
				0.013159		99.96
				99.96		
12	8	6	1	0.601357	2	0.116535
			2	0.091672	4	0.121339
			3	0.062129	5	0.087471
			4	0.068695	6	0.111421
			6	0.069544	7	0.106110
			8	0.106602	8	0.658073
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.387839		0.041325
				0.013167		99.90
				99.91		
12	8	5	1	0.602207	2	0.116547
			2	0.120409	4	0.165529
			4	0.100975	6	0.154521
			6	0.069651	7	0.104920
			8	0.106758	8	0.659266
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.387898		0.041362
				0.013187		99.81
				99.76		
12	8	4	1	0.604523	2	0.116635
			2	0.120858	4	0.165737
			4	0.137896	6	0.211104
			8	0.136723	8	0.707896
				BIAS CORR		
				VAR COEFF		
				0.385650		0.041427
				0.013238		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.37	99.66
12	8	3	1	0.648271	3	0.215149
			3	0.196582	6	0.253575
			8	0.155147	8	0.710932
			BIAS CORR	0.384044		
			VAR COEFF	0.013357		0.041572
			EFFICIENCY	98.48		99.31
12	8	2	1	0.745484	5	0.358447
			6	0.254916	8	0.769866
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.042037
			EFFICIENCY	95.19		98.21
12	8	1	1	1.000000	6	1.009193
			BIAS CORR	0.219286		
			VAR COEFF	0.016120		0.044537
			EFFICIENCY	81.61		92.70
12	7	7	1	0.605708	1	0.049068
			2	0.091437	2	0.065758
			3	0.063469	3	0.083093
			4	0.048036	4	0.089242
			5	0.041169	5	0.113521
			6	0.033139	6	0.109839
			7	0.116941	7	0.819790
			BIAS CORR	0.373362		
			VAR COEFF	0.013261		0.047248
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.95		98.10
12	7	6	1	0.605978	2	0.095128
			2	0.091906	3	0.083091
			3	0.063687	4	0.089301
			4	0.047680	5	0.113525
			5	0.054604	6	0.109916
			7	0.111149	7	0.820129
			BIAS CORR	0.375124		
			VAR COEFF	0.013266		0.047269
			EFFICIENCY	99.96		99.95

TABLE 14  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
12	7	5	1	0.606487	2	0.133352
			2	0.091874	4	0.132600
			3	0.086937	5	0.113105
			4	0.082431	6	0.110474
			5	0.132270	7	0.820489
			BIAS CORR	0.373004		
			VAR COEFF	0.013277		0.047305
			EFFICIENCY	99.87		99.88
12	7	4	1	0.607863	2	0.133407
			2	0.121532	4	0.189797
			4	0.120505	6	0.166233
			7	0.150099	7	0.820638
			BIAS CORR	0.372376		
			VAR COEFF	0.013309		0.047367
			EFFICIENCY	99.63		99.75
12	7		1	0.650141	3	0.195722
			3	0.178876	5	0.215864
			7	0.170983	7	0.874870
			BIAS CORR	0.371860		
			VAR COEFF	0.013396		0.047442
			EFFICIENCY	98.99		99.59
12	7	2	1	0.745484	4	0.324533
			6	0.254516	7	0.932604
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.047779
			EFFICIENCY	95.95		98.89
12	7	1	1	1.000000	7	1.140823
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.049594
			EFFICIENCY	82.26		95.27
12	6	6	1	0.611987	1	0.056639
			2	0.093089	2	0.078376
			3	0.063422	3	0.091309
			4	0.049860	4	0.115037
			5	0.039577	5	0.116215



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			6	0.142065	6	1.011825
			BIAS CORR	0.356536		
			VAR COEFF	0.013400		0.055225
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.54		49.71
12	6	5	1	0.612312	2	0.112287
			2	0.093216	3	0.091265
			3	0.063233	4	0.115117
			4	0.069943	5	0.116221
			6	0.161296	6	1.012343
			BIAS CORR	0.356335		
			VAR COEFF	0.013407		0.055254
			EFFICIENCY	99.94		99.95
12	6	4	1	0.613194	2	0.154301
			2	0.122466	4	0.162714
			4	0.102798	5	0.115760
			6	0.161542	6	1.013393
			BIAS CORR	0.356347		
			VAR COEFF	0.013428		0.055297
			EFFICIENCY	99.79		99.87
12	6	3	1	0.654868	2	0.154361
			3	0.160426	4	0.221259
			6	0.184707	6	1.070629
			BIAS CORR	0.356355		
			VAR COEFF	0.013493		0.055362
			EFFICIENCY	99.31		99.75
12	6	2	1	0.745484	3	0.286509
			6	0.254516	6	1.131361
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.055619
			EFFICIENCY	96.96		99.29
12	6	1	1	1.000000	6	1.302462
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.056916
			EFFICIENCY	83.13		97.03

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
12	5	5	1	0.620491	1	0.068089
			2	0.094034	2	0.091339
			3	0.065042	3	0.116092
			4	0.049003	4	0.125300
			5	0.171430	5	1.249499
		BIAS CORR		0.337471		
				0.013563		0.066442
				100.00		100.00
				95.21		41.32
12	5	4	1	0.621029	2	0.132116
			2	0.094004	3	0.116054
			3	0.088938	4	0.125403
			5	0.196029	5	1.250205
		BIAS CORR		0.337304		
				0.013598		0.066483
				99.92		99.94
12	5	3	1	0.662469	2	0.185584
			3	0.140772	4	0.185958
			5	0.196759	5	1.251114
		BIAS CORR		0.337859		
				0.013652		0.066553
				99.52		99.83
12	5	2	1	0.726736	3	0.273276
			5	0.273264	5	1.316869
		BIAS CORR		0.337966		
				0.013860		0.066701
				98.02		99.61
12	5	1	1	1.000000	5	1.505510
				0.215286		
				0.016120		0.067637
				84.28		98.23
		BIAS CORR				
12	4	4	1	0.632141	1	0.083928
			2	0.096041	2	0.116546
			3	0.065284	3	0.136725
			4	0.206534	4	1.562605
		BIAS CORR		0.315503		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.083368
				EFFICIENCY		100.00
				EFF(M/N)		32.93
12	4	3	1	0.633082	2	0.166834
			2	0.126246	3	0.136692
			4	0.240672	4	1.563733
				BIAS CORR		0.083430
				VAR COEFF		99.93
				EFFICIENCY		
12	4	2	1	0.709268	2	0.229847
			4	0.290732	4	1.636298
				BIAS CORR		0.083526
				VAR COEFF		99.81
				EFFICIENCY		
12	4	1	1	1.000000	4	1.778107
				BIAS CORR		0.084174
				VAR COEFF		99.04
				EFFICIENCY		
12	3	3	1	0.649425	1	0.111543
			2	0.098057	2	0.150145
			3	0.252518	3	2.014975
				BIAS CORR		0.111828
				VAR COEFF		100.00
				EFFICIENCY		24.55
				EFF(M/N)		
12	3	2	1	0.692769	2	0.217026
			3	0.307231	3	2.016734
				BIAS CORR		0.111938
				VAR COEFF		99.90
				EFFICIENCY		
12	3	1	1	1.000000	3	2.180972
				BIAS CORR		0.112322
				VAR COEFF		99.56
				EFFICIENCY		

TABLE 14  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	0.677358	1	0.162533
			2	0.322642	2	2.781137
			BIAS CORR	0.257777		
			VAR COEFF	0.014850		0.169581
			EFFICIENCY	100.00		100.00
			EFF(M/N)	87.11		16.19
12	2	1	1	1.000000	2	2.881980
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.169816
			EFFICIENCY	92.12		99.86
12	1	1	1	1.000000	1	4.644978
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.347796
			EFFICIENCY	100.00		100.00
			EFF(M/N)	80.25		7.89
13	13	13	1	0.585432	1	0.025534
			2	0.087973	2	0.034832
			3	0.060195	3	0.042273
			4	0.046184	4	0.048868
			5	0.038134	5	0.055059
			6	0.032368	6	0.061064
			7	0.028741	7	0.067121
			8	0.025365	8	0.073354
			9	0.023139	9	0.080045
			10	0.020948	10	0.087462
			11	0.019145	11	0.096321
			12	0.017348	12	0.107880
			13	0.014998	13	0.133528
			BIAS CORR	0.423932		
			VAR COEFF	0.011728		0.025324
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
13	13	12	1	0.585633	2	0.050185
			2	0.087850	3	0.051240
			3	0.060592	4	0.048895
			4	0.045561	5	0.055034
			5	0.038993	6	0.061112

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			6	0.031479	7	0.067085
			7	0.042881	8	0.073410
			9	0.034886	9	0.080033
			10	0.020438	10	0.087492
			11	0.019379	11	0.096342
			12	0.017302	12	0.107902
			13	0.015005	13	0.135556
			BIAS CORR	0.423660		
			VAR COEFF	0.011732		0.025329
			EFFICIENCY	99.97		99.98
13	13	11	1	0.585740	2	0.069458
			2	0.088276	4	0.071105
			3	0.059551	5	0.054705
			4	0.047392	6	0.061550
			5	0.036673	7	0.066604
			6	0.048248	8	0.073965
			8	0.051697	9	0.079625
			10	0.031261	10	0.087756
			11	0.018685	11	0.096288
			12	0.017485	12	0.107953
			13	0.014992	13	0.135597
			BIAS CORR	0.423371		
			VAR COEFF	0.011736		0.025337
			EFFICIENCY	99.94		99.95
13	13	10	1	0.586060	2	0.069433
			2	0.087733	4	0.098399
			3	0.061123	6	0.089010
			4	0.044673	7	0.065348
			5	0.055671	8	0.075333
			7	0.057911	9	0.078532
			9	0.046957	10	0.088540
			11	0.027693	11	0.096008
			12	0.017145	12	0.108081
			13	0.015034	13	0.135656
			BIAS CORR	0.423014		
			VAR COEFF	0.011740		0.025349
			EFFICIENCY	99.90		99.90
13	13	9	1	0.586236	2	0.069398

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
13	13	8	2	0.088475	4	0.098532
			3	0.059249	6	0.123446
			4	0.065897	8	0.106744
			6	0.066249	9	0.076914
			8	0.051794	10	0.089667
			10	0.043069	11	0.095653
			12	0.024061	12	0.108271
			13	0.014969	13	0.135748
			BIAS CORR	0.422439		
			VAR COEFF	0.011746		0.025369
			EFFICIENCY	99.85		99.82
			1	0.586929	3	0.102434
			2	0.087742	5	0.111298
13	13	7	3	0.082765	7	0.136275
			5	0.078258	9	0.115366
			7	0.057989	10	0.084846
			9	0.047105	11	0.097846
			11	0.037932	12	0.107906
			13	0.019281	13	0.135956
			BIAS CORR	0.421139		
			VAR COEFF	0.011757		0.025400
			EFFICIENCY	99.76		99.70
			1	0.587615	3	0.127544
			2	0.115880	6	0.149468
			4	0.097021	8	0.150064
			6	0.066388	10	0.123673
13	13	6	8	0.065580	11	0.095225
			11	0.047955	12	0.108871
			13	0.019361	13	0.136177
			BIAS CORR	0.420050		
			VAR COEFF	0.011779		0.025455
			EFFICIENCY	99.57		99.48
			1	0.589411	4	0.167943
			2	0.116252	7	0.164608
			4	0.097121	9	0.165697
			6	0.081517	11	0.132986
			9	0.072065	12	0.108169
			12	0.043634	13	0.136793

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
13	13	5	1	0.412386	4	0.203633
			3	0.011810	8	0.207003
			6	99.31	10	0.185616
			9	0.103026	12	0.143845
			12	0.072721	13	0.137483
				0.043745		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.412864		0.025731
				0.011860		98.42
				98.89		
13	13	4	1	0.632275	6	0.306888
			3	0.170898	10	0.246921
			7	0.124616	12	0.145919
			11	0.072210	13	0.139265
				0.402627		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.011934		0.026076
				98.27		97.11
13	13	3	1	0.669294	7	0.370771
			4	0.211949	11	0.279101
			10	0.118757	13	0.171011
				0.389524		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.012108		0.026740
				96.87		94.70
13	13	2	1	0.737756	9	0.548394
			6	0.262244	13	0.226163
				0.341217		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.012565		0.028988
				93.34		87.36
13	13	1	1	1.000000	11	0.753597
				0.205661		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.014711		0.036817
				79.73		68.78
13	12	12	1	0.586626	1	0.027653
			2	0.088153	2	0.037753

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			3	0.060305	3	0.045674
			4	0.046304	4	0.053192
			5	0.038187	5	0.059121
			6	0.032495	6	0.066756
			7	0.028725	7	0.071996
			8	0.025455	8	0.079847
			9	0.023089	9	0.085772
			10	0.021108	10	0.095916
			11	0.018996	11	0.102535
			12	0.030557	12	0.245604
		BIAS CORR		0.416252		
		VAR COEFF		0.011752		0.027438
		EFFICIENCY		100.00		100.00
		EFF(M/N)		99.80		92.29
13	12	11	1	0.586828	2	0.054381
			2	0.088031	3	0.045639
			3	0.060704	4	0.053222
			4	0.045678	5	0.059096
			5	0.039019	6	0.066809
			6	0.031603	7	0.071958
			7	0.042915	8	0.079910
			9	0.034877	9	0.085760
			10	0.020597	10	0.095950
			11	0.019231	11	0.102553
			12	0.030517	12	0.245660
		BIAS CORR		0.415976		
		VAR COEFF		0.011756		0.027444
		EFFICIENCY		99.97		99.98
13	12	10	1	0.586933	2	0.075206
			2	0.088457	4	0.077222
			3	0.059661	5	0.058741
			4	0.047510	6	0.067284
			5	0.036699	7	0.071440
			6	0.048365	8	0.080512
			8	0.051751	9	0.085321
			10	0.031399	10	0.096237
			11	0.018537	11	0.102497
			12	0.030689	12	0.245760
		BIAS CORR		0.415697		



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		
				EFFICIENCY		
				0.011739		0.027454
				99.94		99.94
13	12	9	1	0.587260	2	0.075182
			2	0.087913	4	0.106533
			3	0.061237	6	0.096774
			4	0.044786	7	0.070094
			5	0.055765	8	0.081983
			7	0.058004	9	0.084150
			9	0.047041	10	0.097083
			11	0.027609	11	0.102199
			12	0.030385	12	0.245961
				BIAS CORR		
				0.415311		
				VAR COEFF		0.027468
				EFFICIENCY		99.89
				99.90		
13	12	8	1	0.587426	2	0.075149
			2	0.088655	4	0.106682
			3	0.059360	6	0.133718
			4	0.066027	8	0.115682
			6	0.066378	9	0.082418
			8	0.051848	10	0.098299
			10	0.043114	11	0.101824
			12	0.037192	12	0.246266
				BIAS CORR		
				0.414781		
				VAR COEFF		0.027491
				EFFICIENCY		99.81
				99.85		
13	12	7	1	0.588338	3	0.111008
			2	0.088138	5	0.120516
			3	0.082958	7	0.147446
			5	0.078287	9	0.124252
			7	0.072233	10	0.093093
			10	0.052671	11	0.104213
			12	0.037375	12	0.246106
				BIAS CORR		
				0.413841		
				VAR COEFF		0.027528
				EFFICIENCY		99.67
				99.72		
13	12	6	1	0.589411	3	0.138114
			2	0.116252	6	0.161942

TABLE 14  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.097121	8	0.162144
			6	0.081517	10	0.134778
			9	0.072065	11	0.101389
			12	0.043634	12	0.247382
			BIAS CORR	0.412386		
			VAR COEFF	0.011810		0.027590
			EFFICIENCY	99.51		99.45
12	12	5	1	0.628443	4	0.182095
			3	0.152066	7	0.178183
			6	0.103026	9	0.179563
			9	0.072721	11	0.142827
			12	0.043745	12	0.247315
			BIAS CORR	0.412864		
			VAR COEFF	0.011860		0.027703
			EFFICIENCY	99.09		99.04
12	12	4	1	0.632275	4	0.220723
			3	0.170898	8	0.223990
			7	0.124616	10	0.200909
			11	0.072210	12	0.286085
			BIAS CORR	0.402627		
			VAR COEFF	0.011934		0.027909
			EFFICIENCY	98.48		98.31
12	12	3	1	0.669294	6	0.332791
			4	0.211949	10	0.267481
			10	0.118757	12	0.290327
			BIAS CORR	0.389524		
			VAR COEFF	0.012108		0.028314
			EFFICIENCY	97.06		96.91
13	12	2	1	0.737756	8	0.477720
			6	0.262244	12	0.362754
			BIAS CORR	0.341217		
			VAR COEFF	0.012565		0.029593
			EFFICIENCY	93.53		92.72
13	12	1	1	1.000000	11	0.753597
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.036817

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		74.53
13	11	11	1	0.588408	1	0.030194
			2	0.088393	2	0.040955
			3	0.060576	3	0.050624
			4	0.046213	4	0.056034
			5	0.038664	5	0.067678
			6	0.032142	6	0.068909
			7	0.029175	7	0.081749
			8	0.025114	8	0.083489
			9	0.023717	9	0.098496
			10	0.020517	10	0.098949
			11	0.047081	11	0.357013
				BIAS CORR		
				0.407066		
				VAR COEFF		0.029946
				0.011788		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		84.57
13	11	10	1	0.589706	2	0.059112
			2	0.082272	3	0.050587
			3	0.060970	4	0.056068
			4	0.045596	5	0.067653
			5	0.039484	6	0.068968
			6	0.031262	7	0.081710
			7	0.043175	8	0.083559
			9	0.035348	9	0.098486
			10	0.020013	10	0.098987
			11	0.047275	11	0.357096
				BIAS CORR		
				0.406805		
				VAR COEFF		0.029953
				0.011791		
				EFFICIENCY		99.98
				99.97		
13	11	9	1	0.588800	2	0.082198
			2	0.088232	4	0.082672
			3	0.061205	5	0.067263
			4	0.045168	6	0.069495
			5	0.040096	7	0.081140
			6	0.030622	8	0.084227
			7	0.043459	9	0.098005
			9	0.047002	10	0.099307
			11	0.055305	11	0.357150

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.406331		
			VAR COEFF	0.011795		0.029964
			EFFICIENCY	99.94		99.94
12	11	8	1	0.589022	2	0.082177
			2	0.088155	4	0.116245
			3	0.061492	6	0.103269
			4	0.044721	7	0.079608
			5	0.056043	8	0.085916
			7	0.058101	9	0.096676
			9	0.047168	10	0.100278
			11	0.055299	11	0.357047
			BIAS CORR	0.406195		
			VAR COEFF	0.011799		0.029983
			EFFICIENCY	99.91		99.87
13	11	7	1	0.589453	3	0.120726
			2	0.088108	5	0.131381
			3	0.083107	7	0.116664
			5	0.078587	8	0.080357
			7	0.058163	9	0.101467
			9	0.047285	10	0.097469
			11	0.055298	11	0.358344
			BIAS CORR	0.406165		
			VAR COEFF	0.011807		0.030011
			EFFICIENCY	99.83		99.78
13	11	6	1	0.590359	3	0.120800
			2	0.116392	5	0.131652
			4	0.097427	7	0.160248
			6	0.066622	9	0.138764
			8	0.065776	10	0.096010
			11	0.063434	11	0.359322
			BIAS CORR	0.405004		
			VAR COEFF	0.011830		0.030046
			EFFICIENCY	99.65		99.67
12	11	5	1	0.592215	3	0.120948
			2	0.116775	5	0.132291
			4	0.114965	7	0.160606
			7	0.104194	9	0.195535

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			11	0.071850	11	0.398896
			BIAS CORR	0.402575		
			VAR COEFF	0.011865		0.030132
			EFFICIENCY	99.35		99.38
13	11	4	1	0.632275	4	0.198095
			3	0.170898	7	0.194166
			7	0.124616	9	0.195922
			11	0.072210	11	0.400552
			BIAS CORR	0.402627		
			VAR COEFF	0.011934		0.030247
			EFFICIENCY	98.77		99.00
12	11	3	1	0.669294	5	0.298370
			4	0.211949	9	0.265697
			10	0.118757	11	0.404460
			BIAS CORR	0.389524		
			VAR COEFF	0.012108		0.030546
			EFFICIENCY	97.36		98.04
13	11	2	1	0.737756	7	0.434193
			6	0.262244	11	0.485118
			BIAS CORR	0.341217		
			VAR COEFF	0.012565		0.031393
			EFFICIENCY	93.82		95.39
13	11	1	1	1.000000	11	0.753597
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.036817
			EFFICIENCY	80.13		91.34
12	10	10	1	0.590776	1	0.033069
			2	0.088850	2	0.045899
			3	0.060448	3	0.052609
			4	0.047188	4	0.068217
			5	0.037624	5	0.064544
			6	0.033470	6	0.085804
			7	0.028112	7	0.080153
			8	0.026570	8	0.103152
			9	0.022353	9	0.096269
			10	0.064611	10	0.474768

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE		
				BIAS CORR	0.396606			
				VAR COEFF	0.011836	0.032961		
				EFFICIENCY	100.00	100.00		
				EFF(M/N)	99.09	76.83		
13	10	9	1	0.590923	2	0.065786		
			2	0.088989	3	0.052569		
			3	0.060126	4	0.068257		
			4	0.047801	5	0.064515		
			5	0.036878	6	0.085873		
			6	0.034301	7	0.080110		
			7	0.027274	8	0.103232		
			8	0.039468	9	0.096258		
			10	0.074241	10	0.474905		
						BIAS CORR	0.396278	
			VAR COEFF	0.011839	0.032970			
			EFFICIENCY	99.97	99.97			
13	10	8	1	0.591066	2	0.089778		
			2	0.089143	4	0.095906		
			3	0.059823	5	0.064110		
			4	0.048355	6	0.086423		
			5	0.036184	7	0.079517		
			6	0.048991	8	0.103931		
			8	0.052168	9	0.095758		
			10	0.074270	10	0.475296		
						BIAS CORR	0.396098	
						VAR COEFF	0.011843	0.032982
			EFFICIENCY	99.94	99.94			
13	10	7	1	0.591311	2	0.089756		
			2	0.089275	4	0.127901		
			3	0.059604	6	0.118610		
			4	0.066532	7	0.078057		
			6	0.066709	8	0.105535		
			8	0.052259	9	0.094491		
			10	0.074311	10	0.476119		
						BIAS CORR	0.396011	
						VAR COEFF	0.011848	0.032999
						EFFICIENCY	99.90	99.88

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
13	10	6	1	0.592065	2	0.089727
			2	0.116633	4	0.128078
			4	0.097729	6	0.159765
			6	0.066777	8	0.143070
			8	0.052407	9	0.092580
			10	0.074389	10	0.477407
			BIAS CORR	0.396141		
			VAR COEFF	0.011864		0.033028
			EFFICIENCY	99.76		99.80
13	10	5	1	0.593398	2	0.089671
			2	0.116912	4	0.128493
			4	0.115609	6	0.160076
			7	0.089441	8	0.195150
			10	0.084640	10	0.518111
			BIAS CORR	0.394709		
			VAR COEFF	0.011889		0.033086
			EFFICIENCY	99.55		99.62
13	10	4	1	0.633155	3	0.164879
			3	0.152740	6	0.194089
			6	0.118963	8	0.195405
			10	0.095142	10	0.519380
			BIAS CORR	0.394006		
			VAR COEFF	0.011948		0.033166
			EFFICIENCY	99.06		99.38
13	10	3	1	0.669294	4	0.263323
			4	0.211949	8	0.268233
			10	0.118757	10	0.523110
			BIAS CORR	0.389524		
			VAR COEFF	0.012108		0.033400
			EFFICIENCY	97.75		98.68
13	10	2	1	0.737756	6	0.398583
			6	0.262244	10	0.609030
			BIAS CORR	0.341217		
			VAR COEFF	0.012565		0.033986
			EFFICIENCY	94.20		96.98
13	10	1	1	1.000000	10	0.855383

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
13	9	9		BIAS CORR		
				VAR COEFF		0.037684
				EFFICIENCY		87.47
			1	0.593899	1	0.037080
			2	0.089034	2	0.048761
			3	0.061604	3	0.065339
			4	0.045746	4	0.062139
			5	0.039935	5	0.088963
			6	0.031415	6	0.077289
			7	0.030620	7	0.108328
			8	0.024307	8	0.095186
			9	0.083440	9	0.602680
				BIAS CORR		
				VAR COEFF		0.036654
				EFFICIENCY		100.00
				EFF(M/N)		69.09
		8	1	0.594085	2	0.071063
			2	0.088917	3	0.065298
			3	0.061979	4	0.062182
			4	0.045160	5	0.088939
			5	0.040714	6	0.077362
			6	0.030578	7	0.108288
			7	0.044162	8	0.095274
			9	0.094405	9	0.602831
				BIAS CORR		
				VAR COEFF		0.036665
				EFFICIENCY		99.97
13	9	7	1	0.594305	2	0.070945
			2	0.088840	3	0.095316
			3	0.062266	5	0.120753
			4	0.044714	6	0.076438
			5	0.036626	7	0.109460
			7	0.058764	8	0.094134
			9	0.094485	9	0.603699
				BIAS CORR		
				VAR COEFF		0.036681
				EFFICIENCY		99.94



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
13	9	6	1	0.594736	2	0.070749
			2	0.088793	3	0.095496
			3	0.083877	5	0.160016
			5	0.079167	7	0.147128
			7	0.058826	8	0.092129
			9	0.094601	9	0.605160
			BIAS CORR	0.384492		
			VAR COEFF	0.011913		0.036706
			EFFICIENCY	99.87		99.86
13	9	5	1	0.595776	3	0.147148
			2	0.117519	5	0.160110
			4	0.098048	7	0.147532
			6	0.082149	8	0.091748
			9	0.106509	9	0.605969
			BIAS CORR	0.383688		
			VAR COEFF	0.011937		0.036742
			EFFICIENCY	99.67		99.76
13	9	4	1	0.635190	3	0.147258
			3	0.153746	5	0.160439
			6	0.103806	7	0.197328
			9	0.107258	9	0.648057
			BIAS CORR	0.384096		
			VAR COEFF	0.011988		0.036788
			EFFICIENCY	99.24		99.63
13	9	3	1	0.669739	4	0.240016
			4	0.195726	7	0.238762
			9	0.134535	9	0.650869
			BIAS CORR	0.381874		
			VAR COEFF	0.012111		0.036966
			EFFICIENCY	98.23		99.16
13	9	2	1	0.737756	5	0.364750
			6	0.262244	9	0.742273
			BIAS CORR	0.341217		
			VAR COEFF	0.012565		0.037410
			EFFICIENCY	94.69		97.98
13	9	1	1	1.000000	9	0.962711

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.205661				
				VAR COEFF	0.014711	0.040057			
				EFFICIENCY	80.88	91.50			
13	8	8	1	0.597760	1	0.040981			
			2	0.090080	2	0.058580			
			3	0.060666	3	0.062685			
			4	0.048255	4	0.087790			
			5	0.037404	5	0.077594			
			6	0.034722	6	0.112076			
			7	0.027695	7	0.096722			
			8	0.103418	8	0.745171			
				BIAS CORR	0.371838				
				VAR COEFF	0.011977		0.041280		
				EFFICIENCY	100.00		100.00		
				EFF(M/N)	97.92		61.35		
			13	8	7	1	0.597907	2	0.083231
2	0.090237	3				0.062639			
3	0.060358	4				0.087844			
4	0.048818	5				0.077564			
5	0.036700	6				0.112167			
6	0.049639	7				0.096675			
8	0.116340	8				0.745449			
	BIAS CORR	0.371646							
	VAR COEFF	0.011980					0.041294		
	EFFICIENCY	99.97					99.97		
13	8	6				1	0.598159	2	0.111828
						2	0.090371	4	0.120786
						3	0.060137	5	0.077107
			4	0.067255	6	0.112809			
			6	0.067610	7	0.095999			
			8	0.116468	8	0.746166			
				BIAS CORR	0.371544				
				VAR COEFF	0.011986		0.041312		
				EFFICIENCY	99.92		99.92		
			13	8	5	1	0.598928	2	0.111816
						2	0.117975	4	0.159280
						4	0.098731	6	0.151507

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
13	8	4	6	0.067680	7	0.094309
			8	0.116686	8	0.747576
			BIAS CORR	0.371649		
			VAR COEFF	0.012002		0.041336
			EFFICIENCY	99.79		99.87
			1	0.600907	2	0.111806
			2	0.118347	4	0.159516
			4	0.133677	6	0.201265
			8	0.147069	8	0.792250
			BIAS CORR	0.370006		
13	8	3	1	0.643410	3	0.204856
			3	0.190631	6	0.243806
			8	0.165959	8	0.794405
			BIAS CORR	0.368896		
			VAR COEFF	0.012142		0.041574
			EFFICIENCY	98.64		99.46
			1	0.737756	4	0.329292
			6	0.262244	8	0.891605
			BIAS CORR	0.341217		
			VAR COEFF	0.012563		0.041874
13	8	2	1	0.737756	4	0.329292
			6	0.262244	8	0.891605
			BIAS CORR	0.341217		
			VAR COEFF	0.012563		0.041874
			EFFICIENCY	95.32		98.58
			1	1.000000	8	1.081554
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.043787
			EFFICIENCY	81.42		94.27
			1	0.602912	1	0.047722
13	7	7	2	0.090238	2	0.062109
			3	0.062536	3	0.082839
			4	0.046344	4	0.081515
			5	0.040724	5	0.113370
			6	0.031732	6	0.101419
			7	0.125514	7	0.908682
			BIAS CORR	0.357312		
			VAR COEFF	0.012078		0.047244

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		53.60
				EFF(M/N)		
13	7	6	1	0.603148	2	0.090819
			2	0.090159	3	0.082794
			3	0.062834	4	0.081575
			4	0.045883	5	0.113350
			5	0.057238	6	0.101521
			7	0.140739	7	0.908979
				BIAS CORR		
				0.357149		
				VAR COEFF		0.047263
				0.012082		99.96
				EFFICIENCY		
12	7	5	1	0.603602	2	0.090684
			2	0.090113	3	0.122187
			3	0.085011	5	0.155079
			5	0.080369	6	0.100376
			7	0.140906	7	0.910205
				BIAS CORR		
				0.357084		
				VAR COEFF		0.047291
				0.012091		99.90
				EFFICIENCY		
13	7	4	1	0.604870	2	0.090459
			2	0.119158	3	0.122441
			4	0.117213	5	0.206679
			7	0.158759	7	0.959075
				BIAS CORR		
				0.356594		
				VAR COEFF		0.047334
				0.012119		99.81
				EFFICIENCY		
13	7	3	1	0.645786	3	0.188535
			3	0.174375	5	0.206856
			7	0.179839	7	0.960283
				BIAS CORR		
				0.356413		
				VAR COEFF		0.047393
				0.012190		99.69
				EFFICIENCY		
13	7	2	1	0.737756	4	0.310013
			6	0.262244	7	1.017230
				BIAS CORR		
				0.341217		
				VAR COEFF		0.047675
				0.012565		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				96.12		99.10
				EFFICIENCY		
13	7	1	1	1.000000	7	1.218741
				BIAS CORR		
				0.205661		
				VAR COEFF		0.049102
				0.014711		96.22
				EFFICIENCY		
				82.11		
13	6	6	1	0.609333	1	0.054524
			2	0.091673	2	0.076379
			3	0.061936	3	0.086107
			4	0.048973	4	0.113063
			5	0.038374	5	0.109125
			6	0.149709	6	1.103241
				BIAS CORR		
				0.341033		
				VAR COEFF		0.055223
				0.012210		100.00
				EFFICIENCY		45.86
				EFF(M/N)		
				96.06		
13	6	5	1	0.609610	2	0.109187
			2	0.091815	3	0.086057
			3	0.061706	4	0.113144
			4	0.068253	5	0.109101
			6	0.168616	6	1.103731
				BIAS CORR		
				0.340891		
				VAR COEFF		0.055247
				0.012216		99.96
				EFFICIENCY		
				99.95		
13	6	4	1	0.610420	2	0.148501
			2	0.120144	4	0.158412
			4	0.100554	5	0.108520
			6	0.168882	6	1.104760
				BIAS CORR		
				0.340941		
				VAR COEFF		0.055280
				0.012233		99.90
				EFFICIENCY		
				99.81		
13	6	3	1	0.651098	2	0.148523
			3	0.156431	4	0.212640
			6	0.191971	6	1.159004
				BIAS CORR		
				0.341049		
				VAR COEFF		0.055329
				0.012299		99.81
				EFFICIENCY		
				99.36		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	0.737756	3	0.274251
			6	0.262244	6	1.218444
			BIAS CORR	0.341217		
			VAR COEFF	0.012565		0.055542
			EFFICIENCY	97.17		99.42
13	6	1	1	1.000000	6	1.383951
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.056588
			EFFICIENCY	83.00		97.59
13	5	5	1	0.618058	1	0.065899
			2	0.092488	2	0.087583
			3	0.063873	3	0.112803
			4	0.047749	4	0.119221
			5	0.177833	5	1.345573
			BIAS CORR	0.322661		
			VAR COEFF	0.012384		0.066440
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.71		38.12
13	5	4	1	0.618548	2	0.127246
			2	0.092443	3	0.112757
			3	0.086954	4	0.119322
			5	0.202055	5	1.346209
			BIAS CORR	0.322550		
			VAR COEFF	0.012393		0.066475
13	5	2	1	0.620769	2	0.178794
			2	0.145953	4	0.178659
			5	0.233278	5	1.346958
			BIAS CORR	0.322391		
			VAR COEFF	0.012440		0.066533
			EFFICIENCY	99.55		99.86
13	5	2	1	0.720824	3	0.263411
			5	0.279171	5	1.409985
			BIAS CORR	0.323500		
			VAR COEFF	0.012618		0.066652

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		98.15
						99.68
12	5	1	1	1.000000	5	1.592958
				BIAS CORR		
				VAR COEFF		0.067420
				EFFICIENCY		98.55
13	4	4	1	0.629863	1	0.080991
			2	0.094583	2	0.112701
			3	0.067946	3	0.131154
			4	0.211558	4	1.666603
				BIAS CORR		
				VAR COEFF		0.083366
				EFFICIENCY		100.00
				EFF(M/N)		90.38
13	4	3	1	0.630737	2	0.161467
			2	0.123969	3	0.131108
			4	0.245294	4	1.667626
				BIAS CORR		
				VAR COEFF		0.083414
				EFFICIENCY		99.94
13	4	2	1	0.704884	2	0.221437
			4	0.295116	4	1.737628
				BIAS CORR		
				VAR COEFF		0.083447
				EFFICIENCY		99.84
13	4	1	1	1.000000	4	1.874964
				BIAS CORR		
				VAR COEFF		0.084036
				EFFICIENCY		99.20
13	3	3	1	0.647314	1	0.107804
			2	0.096981	2	0.144652
			3	0.256109	3	2.132681
				BIAS CORR		
				VAR COEFF		0.111826
				EFFICIENCY		100.00
				EFF(M/N)		22.65

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
11	3	2	1	0.689673	2	0.209601
			3	0.310327	3	2.134255
			BIAS CORR	0.277161		
			VAR COEFF	0.013027		0.111920
			EFFICIENCY	99.61		99.92
12	3	1	1	1.000000	3	2.293254
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.112241
			EFFICIENCY	88.21		99.63
13	2	2	1	0.675385	1	0.156960
			2	0.324615	2	2.925501
			BIAS CORR	0.246279		
			VAR COEFF	0.013549		0.169580
			EFFICIENCY	100.00		100.00
			EFF(M/N)	86.56		14.93
12	2	1	1	1.000000	2	3.023088
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.169779
			EFFICIENCY	92.10		99.88
13	1	1	1	1.000000	1	4.862367
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.347796
			EFFICIENCY	100.00		100.00
			EFF(M/N)	79.73		7.28



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
11	11	11	1	0.483118	1	0.026379
			2	0.099538	2	0.038781
			3	0.073302	3	0.049156
			4	0.059996	4	0.058735
			5	0.052031	5	0.068096
			6	0.046462	6	0.077613
			7	0.042580	7	0.087716
			8	0.039412	8	0.098910
			9	0.036892	9	0.112172
			10	0.034613	10	0.129778
			11	0.032056	11	0.171390
		BIAS CORR		0.554279		
		VAR COEFF		0.013896		0.023033
		EFFICIENCY		100.00		100.00
		EFF(M/N)		100.00		100.00
11	11	10	1	0.483482	2	0.055287
			2	0.099683	3	0.049136
			3	0.073188	4	0.058744
			4	0.060242	5	0.068095
			5	0.051892	6	0.077652
			6	0.069569	7	0.087725
			8	0.058359	8	0.098950
			9	0.036863	9	0.112203
			10	0.034650	10	0.129820
			11	0.032072	11	0.171446
		BIAS CORR		0.553733		
		VAR COEFF		0.013907		0.021040
		EFFICIENCY		99.92		99.97
11	11	9	1	0.483947	2	0.077273
			2	0.099570	4	0.084670
			3	0.073681	5	0.068041
			4	0.059708	6	0.077819
			5	0.076451	7	0.087597
			7	0.086651	8	0.099132
			9	0.053287	9	0.112202
			10	0.034602	10	0.129908
			11	0.032102	11	0.171541
		BIAS CORR		0.553078		
		VAR COEFF		0.013919		0.023033

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		
				99.83		99.91
11	11	8	1	0.484450	2	0.077318
			2	0.099945	4	0.118745
			3	0.073149	6	0.110948
			4	0.086425	7	0.087452
			6	0.094825	8	0.099451
			8	0.080979	9	0.112150
			10	0.048124	10	0.130080
			11	0.032102	11	0.171700
				BIAS CORR		
				0.552078		
				VAR COEFF		0.023076
				0.013936		
				EFFICIENCY		99.81
				99.72		
11	11	7	1	0.485457	3	0.118541
			2	0.099818	5	0.138235
			3	0.102509	7	0.124529
			5	0.106772	8	0.098761
			7	0.086863	9	0.112833
			9	0.077418	10	0.130135
			11	0.041162	11	0.172016
				BIAS CORR		
				0.549817		
				VAR COEFF		0.023116
				0.013963		
				EFFICIENCY		99.64
				99.52		
11	11	6	1	0.487046	3	0.118900
			2	0.133378	5	0.138706
			4	0.125422	7	0.181063
			6	0.119321	9	0.154142
			9	0.093539	10	0.130488
			11	0.041295	11	0.172559
				BIAS CORR		
				0.548345		
				VAR COEFF		0.023192
				0.014012		
				EFFICIENCY		99.31
				99.17		
11	11	5	1	0.529677	4	0.203843
			3	0.186458	7	0.214873
			6	0.148171	9	0.154818
			9	0.094156	10	0.131315
			11	0.041924	11	0.173496
				BIAS CORR		
				0.549227		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.014100 98.55
						0.023322 98.76
11	11	4	1	0.534689	5	0.264174
			3	0.188032	8	0.245759
			6	0.175811	10	0.174407
			10	0.101468	11	0.175322
				BIAS CORR		
				VAR COEFF		0.023579
				EFFICIENCY		97.68
11	11	3	1	0.576965	6	0.334818
			4	0.261000	9	0.290845
			9	0.162035	11	0.214872
				BIAS CORR		
				VAR COEFF		0.024171
				EFFICIENCY		95.29
11	11	2	1	0.660305	8	0.522264
			6	0.339695	11	0.258779
				BIAS CORR		
				VAR COEFF		0.025966
				EFFICIENCY		88.70
11	11	1	1	1.000000	9	0.824495
				BIAS CORR		
				VAR COEFF		0.033200
				EFFICIENCY		69.38
11	10	10	1	0.485683	1	0.029007
			2	0.100066	2	0.042664
			3	0.073671	3	0.053967
			4	0.060332	4	0.064731
			5	0.052245	5	0.074565
			6	0.046725	6	0.083495
			7	0.042729	7	0.096066
			8	0.039556	8	0.108450
			9	0.036924	9	0.122473
			10	0.062070	10	0.302404
				BIAS CORR		
				VAR COEFF		0.025344

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		90.88
11	10	9	1	0.486050	2	0.060816
			2	0.100211	3	0.053947
			3	0.073556	4	0.064743
			4	0.060580	5	0.074565
			5	0.052106	6	0.085540
			6	0.069913	7	0.096078
			8	0.058568	8	0.108497
			9	0.036895	9	0.122512
			10	0.062121	10	0.302513
				BIAS CORR		
				VAR COEFF		0.025354
				EFFICIENCY		99.96
11	10	8	1	0.486520	2	0.084960
			2	0.100099	4	0.093211
			3	0.074052	5	0.074510
			4	0.060044	6	0.085729
			5	0.076803	7	0.095943
			7	0.087004	8	0.108703
			9	0.053380	9	0.122517
			10	0.062099	10	0.302713
				BIAS CORR		
				VAR COEFF		0.025369
				EFFICIENCY		99.90
11	10	7	1	0.487023	2	0.085016
			2	0.100475	4	0.130538
			3	0.073518	6	0.122019
			4	0.086870	7	0.095793
			6	0.095273	8	0.109062
			8	0.081209	9	0.122470
			10	0.075632	10	0.303078
				BIAS CORR		
				VAR COEFF		0.025396
				EFFICIENCY		99.80
11	10	6	1	0.487993	3	0.130395
			2	0.133616	5	0.151896

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			4	0.125781	7	0.136665
			6	0.095447	8	0.108323
			8	0.081390	9	0.123243
			10	0.075773	10	0.303492
			BIAS CORR	0.538141		
			VAR COEFF	0.014039		0.025446
			EFFICIENCY	99.51		99.60
11	10	5	1	0.490347	3	0.130820
			2	0.134193	5	0.152461
			4	0.151335	7	0.198734
			7	0.135509	9	0.168602
			10	0.088611	10	0.304479
			BIAS CORR	0.534506		
			VAR COEFF	0.014106		0.025537
			EFFICIENCY	99.04		99.25
11	10	4	1	0.534689	4	0.224350
			3	0.188032	7	0.235988
			6	0.175811	9	0.169431
			10	0.101468	10	0.306426
			BIAS CORR	0.531495		
			VAR COEFF	0.014234		0.025693
			EFFICIENCY	98.14		98.64
11	10	3	1	0.576965	5	0.290848
			4	0.261000	8	0.269784
			9	0.162035	10	0.355611
			BIAS CORR	0.515958		
			VAR COEFF	0.014526		0.026003
			EFFICIENCY	96.17		97.47
11	10	2	1	0.660305	6	0.455637
			6	0.339695	10	0.441595
			BIAS CORR	0.461744		
			VAR COEFF	0.015325		0.027043
			EFFICIENCY	91.16		93.72
11	10	1	1	1.000000	9	0.824495
			BIAS CORR	0.267207		
			VAR COEFF	0.019509		0.033200

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				71.61		76.34
				EFFICIENCY		
11	9	9	1	0.489451	1	0.032245
			2	0.100803	2	0.047232
			3	0.074317	3	0.060415
			4	0.060586	4	0.070836
			5	0.052847	5	0.083980
			6	0.046819	6	0.093633
			7	0.043073	7	0.106900
			8	0.039647	8	0.119448
			9	0.092457	9	0.433230
				BIAS CORR		
				0.523418		
				VAR COEFF		0.028186
				0.014078		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		81.72
				98.70		
11	9	8	1	0.489824	2	0.067413
			2	0.100950	3	0.060395
			3	0.074202	4	0.070852
			4	0.060836	5	0.083984
			5	0.052707	6	0.093686
			6	0.070193	7	0.106918
			8	0.058813	8	0.119505
			9	0.092474	9	0.433397
				BIAS CORR		
				0.522844		
				VAR COEFF		0.028197
				0.014090		
				EFFICIENCY		99.96
				99.92		
11	9	7	1	0.490292	2	0.094449
			2	0.100836	4	0.102730
			3	0.074699	5	0.083930
			4	0.060297	6	0.093904
			5	0.077455	7	0.106774
			7	0.087444	8	0.119743
			9	0.108977	9	0.433634
				BIAS CORR		
				0.522182		
				VAR COEFF		0.028217
				0.014102		
				EFFICIENCY		99.89
				99.83		
11	9	6	1	0.490904	2	0.094525
			2	0.100915	4	0.144795

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			3	0.103628	6	0.134798
			5	0.107884	7	0.106620
			7	0.087567	8	0.120163
			9	0.109102	9	0.434003
			BIAS CORR	0.522109		
			VAR COEFF	0.014120		0.028251
			EFFICIENCY	99.71		99.77
11	9	5	1	0.492527	3	0.144747
			2	0.134862	5	0.168712
			4	0.126759	7	0.151425
			6	0.120395	8	0.119354
			9	0.125457	9	0.435309
			BIAS CORR	0.520533		
			VAR COEFF	0.014169		0.028308
			EFFICIENCY	99.36		99.57
11	9	4	1	0.535661	3	0.145277
			3	0.188517	5	0.168394
			6	0.149551	7	0.219890
			9	0.126271	9	0.486427
			BIAS CORR	0.521260		
			VAR COEFF	0.014260		0.028420
			EFFICIENCY	98.72		99.13
11	9	3	1	0.576965	4	0.249088
			4	0.261000	7	0.261629
			9	0.162035	9	0.489623
			BIAS CORR	0.515958		
			VAR COEFF	0.014526		0.028615
			EFFICIENCY	96.92		98.50
11	9	2	1	0.660305	6	0.403721
			6	0.339695	9	0.544925
			BIAS CORR	0.461744		
			VAR COEFF	0.015325		0.029292
			EFFICIENCY	91.86		96.22
11	9	1	1	1.000000	9	0.824495
			BIAS CORR	0.267207		
			VAR COEFF	0.019509		0.033200

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				72.16		84.90
				EFFICIENCY		
11	8	8	1	0.494465	1	0.036168
			2	0.101921	2	0.053599
			3	0.074761	3	0.066361
			4	0.061655	4	0.082108
			5	0.052778	5	0.091387
			6	0.047553	6	0.106779
			7	0.043173	7	0.118620
			8	0.123674	8	0.571405
				BIAS CORR		
				0.504621		
				VAR COEFF		0.031751
				0.014224		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		72.54
				97.69		
11	8	7	1	0.494860	2	0.076240
			2	0.102069	3	0.066341
			3	0.074646	4	0.082131
			4	0.061906	5	0.091395
			5	0.052638	6	0.106844
			6	0.070982	7	0.118645
			8	0.142900	8	0.571664
				BIAS CORR		
				0.504043		
				VAR COEFF		0.031765
				0.014235		
				EFFICIENCY		99.96
				99.92		
11	8	6	1	0.495309	2	0.105945
			2	0.102194	4	0.117156
			3	0.074629	5	0.091340
			4	0.088307	6	0.107091
			6	0.096522	7	0.118495
			8	0.143039	8	0.572197
				BIAS CORR		
				0.503786		
				VAR COEFF		0.031789
				0.014249		
				EFFICIENCY		99.88
				99.83		
11	8	5	1	0.496310	2	0.106038
			2	0.135840	4	0.162952
			4	0.127810	6	0.151612
			6	0.096701	7	0.118337
			8	0.143339	8	0.573073



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 12 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.504017		
				0.014279		0.031830
				99.61		99.75
11	8	4	1	0.529496	3	0.162788
			3	0.162816	5	0.188742
			5	0.134059	7	0.169497
			8	0.163629	8	0.573766
				BIAS CORR		
				0.503827		
				VAR COEFF		
				0.014361		0.031910
				EFFICIENCY		99.50
				99.04		
11	8	3	1	0.577897	3	0.205002
			4	0.235603	6	0.259792
			8	0.186500	8	0.629667
				BIAS CORR		
				0.503278		
				VAR COEFF		
				0.014550		0.032054
				EFFICIENCY		99.06
				97.76		
11	8	2	1	0.660305	5	0.360907
			6	0.339695	8	0.685939
				BIAS CORR		
				0.461744		
				VAR COEFF		
				0.015325		0.032497
				EFFICIENCY		97.70
				92.81		
11	8	1	1	1.000000	8	0.934001
				BIAS CORR		
				0.267207		
				VAR COEFF		
				0.019509		0.035090
				EFFICIENCY		90.48
				72.91		
11	7	7	1	0.501134	1	0.041487
			2	0.103046	2	0.060102
			3	0.076205	3	0.078280
			4	0.061660	4	0.089717
			5	0.053979	5	0.107210
			6	0.047654	6	0.119458
			7	0.156322	7	0.723417
				BIAS CORR		
				0.483622		
				VAR COEFF		
				0.014415		0.036353
				EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		63.36
				96.40		

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
11	7	6	1	0.501556	2	0.086078
			2	0.109055	3	0.078264
			3	0.076383	4	0.089747
			4	0.061559	5	0.107227
			5	0.078829	6	0.119540
			7	0.178616	7	0.723762
				0.483201		
			BIAS CORR	0.014427		0.036372
			VAR COEFF	99.92		99.95
			EFFICIENCY			
11	7	5	1	0.502195	2	0.121138
			2	0.109138	4	0.131082
			3	0.105919	5	0.107179
			5	0.109898	6	0.119845
			7	0.178049	7	0.724249
				0.483081		
			BIAS CORR	0.014445		0.036405
			VAR COEFF	99.79		99.86
			EFFICIENCY			
11	7	4	1	0.503995	2	0.121275
			2	0.137838	4	0.184859
			4	0.135058	6	0.172123
			7	0.203109	7	0.725153
				0.482324		
			BIAS CORR	0.014499		0.036461
			VAR COEFF	99.42		99.70
			EFFICIENCY			
11	7	3	1	0.549700	3	0.185820
			3	0.219040	5	0.215225
			7	0.231260	7	0.783163
				0.481942		
			BIAS CORR	0.014639		0.036553
			VAR COEFF	98.47		99.45
			EFFICIENCY			
11	7	2	1	0.660305	4	0.318147
			6	0.339695	7	0.840965
				0.461744		
			BIAS CORR	0.015325		0.036871
			VAR COEFF	94.06		98.60
			EFFICIENCY			
11	7	1	1	1.000000	7	1.053110

TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR VAN CORR EFFICIENCY	0.767207 0.019804 73.84	0.038666 94.02			
11	6	6	1	0.504734	1	0.041488			
			2	0.106076	2	0.071217			
			3	0.016877	3	0.088067			
			4	0.043198	4	0.107407			
			5	0.044769	5	0.121778			
			6	0.140408	6	0.447447			
				BIAS CORR VAN CORR EFFICIENCY	0.440146 0.014441 100.00	0.947917 100.00 94.17			
				EFFICIENCY	94.79				
			11	6	7	1	0.510217	1	0.101374
						2	0.109197	2	0.088067
3	0.014881	3				0.107407			
4	0.014817	4				0.121778			
5	0.217387	5				0.447447			
6	0.447447					0.947917			
	BIAS CORR VAN CORR EFFICIENCY	0.014441 0.014441 94.79				0.947917 94.79			
	EFFICIENCY	94.79							
11	6	8				1	0.511701	1	0.140787
						2	0.107811	2	0.107407
			3	0.101106	3	0.121778			
			4	0.217387	4	0.447447			
			5	0.447447		0.947917			
			6	0.014441		100.00			
				BIAS CORR VAN CORR EFFICIENCY	0.014441 0.014441 94.79	0.947917 94.79			
				EFFICIENCY	94.79				
			11	6	9	1	0.506706	1	0.140787
						2	0.107811	2	0.107407
3	0.101106	3				0.121778			
4	0.217387	4				0.447447			
5	0.447447					0.947917			
6	0.014441					100.00			
	BIAS CORR VAN CORR EFFICIENCY	0.014441 0.014441 94.79				0.947917 94.79			
	EFFICIENCY	94.79							
11	6	10				1	0.506706	1	0.140787
						2	0.107811	2	0.107407
			3	0.101106	3	0.121778			
			4	0.217387	4	0.447447			
			5	0.447447		0.947917			
			6	0.014441		100.00			
				BIAS CORR VAN CORR EFFICIENCY	0.014441 0.014441 94.79	0.947917 94.79			
				EFFICIENCY	94.79				
			11	6	11	1	0.506706	1	0.140787
						2	0.107811	2	0.107407
3	0.101106	3				0.121778			
4	0.217387	4				0.447447			
5	0.447447					0.947917			
6	0.014441					100.00			
	BIAS CORR VAN CORR EFFICIENCY	0.014441 0.014441 94.79				0.947917 94.79			
	EFFICIENCY	94.79							

TABLE IV

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

Q	M	L	I	LOCATION	I	SCALE
				BIAS CORR VAN COEFF EFFICIENCY	0.461744 0.019379 99.69	0.047898 99.12
11	6	1	1	BIAS CORR VAN COEFF EFFICIENCY	1.000000 0.267707 0.019909 79.17	1.140697 0.044137 96.33
11	6		1		0.071371	0.007461
			2		0.107004	0.003044
			3		0.070704	0.100467
			4		0.044074	0.170474
			5		0.770000	1.106116
				BIAS CORR VAN COEFF EFFICIENCY (CRIP/4)	0.433716 0.014449 100.00 92.69	0.001733 100.00 94.98
11	6	4	1		0.077011	0.170031
			2		0.107191	0.106744
			3		0.109011	0.170040
			4		0.741371	1.106037
				BIAS CORR VAN COEFF EFFICIENCY	0.433716 0.019019 97.87	0.001740 97.73
11	6	1	1		0.044074	0.107477
			2		0.170477	0.107000
			3		0.767004	1.100010
				BIAS CORR VAN COEFF EFFICIENCY	0.434077 0.019070 97.39	0.001377 97.01
11	6	1	1		0.034077	0.707107
			2		0.300071	1.174404
				BIAS CORR VAN COEFF EFFICIENCY	0.430067 0.010471 97.76	0.001444 97.37
11	6	1	1		1.000000	1.340007

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.267207		0.052321
				0.019409		97.86
				76.88		
11	4	4	1	0.537189	1	0.071371
			2	0.110719	2	0.104677
			3	0.090686	3	0.131373
			4	0.271996	4	1.277007
				BIAS CORR		
				0.403516		0.064380
				0.019461		100.00
				100.00		35.90
				EFF (M/N)		
				87.88		
11	4	3	1	0.530333	2	0.149319
			2	0.146416	3	0.131373
			3	0.319091	4	1.277007
				BIAS CORR		
				0.403516		0.064376
				0.019493		99.91
				EFF (M/N)		
				99.77		
11	4	2	1	0.627756	2	0.109313
			2	0.377744	4	1.499707
				BIAS CORR		
				0.403777		0.064379
				0.019493		99.77
				EFF (M/N)		
				98.91		
11	4	1	1	1.000000	4	1.577357
				BIAS CORR		
				0.267207		0.063980
				0.019409		98.86
				EFF (M/N)		
				74.74		
11	3	1	1	0.860381	1	0.094081
			2	0.114470	2	0.131007
			3	0.379164	3	1.747614
				BIAS CORR		
				0.348144		0.086911
				0.014134		100.00
				100.00		76.67
				EFF (M/N)		
				86.17		
11	3	2	1	0.608649	2	0.142911
			2	0.391491	3	1.749347

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION		SCALE	
				BIAS CORR	VAR COEFF	EFFICIENCY	
11	7	1	1	0.368952	0.016226	99.49	0.086607
							99.89
11	7	2	1	1.000000	0.267207	82.71	1.897099
					0.019909		0.086459
							99.49
11	7	3	1	0.547989	0.407019	80.99	0.137433
			2	0.324887	0.017247		2.945670
							0.131777
11	7	4	1	1.000000	100.00		100.00
							17.48
11	7	5	1	0.747707	0.019909	88.38	2.433043
							0.131447
							99.89
11	7	6	1	1.000000	100.00		3.742410
							0.131245
							100.00
11	7	7	1	0.7173			0.43
17	12	12	1	0.478410			0.073178
			2	0.046478			0.033475
			3	0.070431			0.047433
			4	0.037808			0.081139
			5	0.044789			0.094031
			6	0.044187			0.044468
			7	0.040880			0.078187
			8	0.037371			0.083983
			9	0.038077			0.043884
			10	0.037477			0.108630
			11	0.031114			0.121388
			12	0.028424			0.184043
17	12	12		0.946817			
				0.012907			0.021077

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		EFFICIENCY
				EFF(M/N)		EFF(M/N)
12	12	11	1	0.475666	2	0.048559
			2	0.046692	3	0.042912
			3	0.070797	4	0.051144
			4	0.058026	5	0.057014
			5	0.044382	6	0.067017
			6	0.065714	7	0.075133
			7	0.056167	8	0.084032
			8	0.034897	9	0.093891
			10	0.033137	10	0.105641
			11	0.031072	11	0.121417
			12	0.028997	12	0.139093
				BIAS CORR		
				0.946468		
				VAN CUPP		0.021077
				0.017895		99.97
				EFFICIENCY		99.97
12	12	10	1	0.476064	2	0.067577
			2	0.046318	3	0.074012
			3	0.071364	4	0.058879
			4	0.046670	5	0.067305
			5	0.072879	6	0.074757
			6	0.087007	7	0.084460
			7	0.051816	8	0.093630
			10	0.032694	10	0.109807
			11	0.031297	11	0.121844
			12	0.024480	12	0.137151
				BIAS CORR		
				0.946090		
				VAN CUPP		0.021106
				0.017603		99.93
				EFFICIENCY		99.93
12	12	9	1	0.476329	2	0.067619
			2	0.046999	3	0.073066
			3	0.064946	4	0.056943
			4	0.082763	5	0.074796
			5	0.050118	6	0.084276
			6	0.074763	7	0.093044
			10	0.047878	10	0.104717
			11	0.031004	11	0.121428
			12	0.027001	12	0.139268

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

A	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
12	12	0	1	0.545614	2	0.021120
			2	0.012614	4	99.87
			3	99.79	6	
			5	0.477017	8	0.067634
			7	0.046409	10	0.103366
			9	0.048330	11	0.133720
			10	0.101945	12	0.114722
			11	0.082177		0.092794
			12	0.072097		0.106596
			13	0.043097		0.121469
			14	0.028977		0.134474
			15	0.044897		
			16	0.012628		0.021146
			17	99.67		99.74
12	12	7	1	0.477430	3	0.103789
			2	0.128430	5	0.114704
			4	0.120288	7	0.133403
			6	0.070404	9	0.131441
			8	0.076990	10	0.105777
			10	0.044321	11	0.122142
			12	0.037074	12	0.154647
			13	0.043103		
			14	0.012697		0.021146
			15	99.49		99.96
12	12	6	1	0.479774	3	0.120204
			2	0.128065	5	0.163449
			4	0.143789	7	0.173271
			6	0.126099	9	0.149419
			8	0.083914	10	0.127086
			10	0.037701	11	0.160248
			12	0.041006		
			13	0.012704		0.021799
			14	99.08		99.21
12	12	5	1	0.071136	4	0.176879
			3	0.174704	7	0.184747
			6	0.140641	9	0.148049
			9	0.114246	11	0.161773



TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
12	12	4	12	0.044273	12	0.161208
			BIAS CORR	0.538130		
			VAR COEFF	0.012791		0.021395
			EFFICIENCY	98.41		98.59
			1	0.929886	5	0.274827
			3	0.704981	9	0.264146
			7	0.178789	11	0.163914
			11	0.090778	12	0.163158
			BIAS CORR	0.925796		
			VAR COEFF	0.012911		0.021661
			EFFICIENCY	97.49		97.38
12	12	7	1	0.967916	6	0.346393
			4	0.748993	10	0.309170
			9	0.183931	12	0.194748
			BIAS CORR	0.948770		
			VAR COEFF	0.013192		0.022189
			EFFICIENCY	95.62		95.06
			1	0.664608	8	0.348426
			7	0.330392	12	0.263499
			BIAS CORR	0.964924		
			VAR COEFF	0.013991		0.023970
			EFFICIENCY	90.23		87.49
12	12	1	1	1.000000	10	0.491713
			BIAS CORR	0.735892		
			VAR COEFF	0.017883		0.032454
			EFFICIENCY	70.34		69.76
			1	0.477621	1	0.025283
			2	0.046414	2	0.087073
			3	0.070974	3	0.046432
			4	0.097718	4	0.093487
			5	0.090060	5	0.064849
			6	0.044274	6	0.072368
12	11	11	7	0.040809	7	0.082373
			8	0.037487	8	0.091086
			9	0.039197	9	0.102113
			10	0.032488	10	0.114409

TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	J	LOCATION	J	SCALE
12	11	1'	11	0.055993	11	0.280109
			BIAS CORR	0.934086		
			VAR COEFF	0.012646		0.023015
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.94		91.63
			1	0.477942	2	0.052933
			2	0.096826	3	0.046912
			3	0.071416	4	0.035468
			4	0.057114	5	0.064832
			5	0.050702	6	0.072423
			6	0.043904	7	0.082349
12	11	4	7	0.061406	8	0.091141
			8	0.051720	9	0.102123
			9	0.037976	10	0.114441
			10	0.036043	11	0.280184
			BIAS CORR	0.933990		
			VAR COEFF	0.012694		0.023021
			EFFICIENCY	99.94		99.97
			1	0.478278	2	0.073747
			2	0.096754	3	0.080473
			3	0.071644	4	0.064710
			4	0.056874	5	0.072740
12	11	8	5	0.073230	6	0.081940
			6	0.082343	7	0.091617
			7	0.051968	8	0.101886
			8	0.037706	9	0.114609
			9	0.036144	10	0.280288
			10	0.033398	11	
			BIAS CORR	0.933398		
			VAR COEFF	0.012662		0.023031
			EFFICIENCY	99.87		99.93
			1	0.478846	2	0.073777
			2	0.097434	3	0.112418
12	11	B	3	0.070246	4	0.104880
			4	0.083178	5	0.081440
			5	0.090486	6	0.092494
			6	0.076977	7	0.101790
			7	0.047634	8	0.114057
			8	0.089944	9	0.280344
			9		10	
			10		11	
			11			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
12	11	7		0.532855		0.023049
				0.012673		99.85
				99.79		
			1	0.479233	3	0.112964
			2	0.096847	5	0.130111
			3	0.098774	7	0.118010
			5	0.102403	8	0.084758
			7	0.082315	9	0.103667
			9	0.072211	10	0.114074
			11	0.068016	11	0.281054
				BIAS CORR		
12	11	6		0.532114		0.023079
				0.012687		99.72
				99.67		
			1	0.480511	3	0.113167
			2	0.124228	5	0.130966
			4	0.120644	7	0.167172
			6	0.112680	9	0.143483
			8	0.088638	10	0.114063
			11	0.068298	11	0.281636
				BIAS CORR		
				0.531217		0.023124
12	11	5		0.012723		99.53
				99.38		
			1	0.521386	3	0.142147
			3	0.154677	6	0.178680
			5	0.129904	8	0.188650
			8	0.118765	10	0.187828
			11	0.074644	11	0.282237
				BIAS CORR		
				0.530740		0.023213
				0.012744		99.14
				98.84		
12	11	4	1	0.529884	4	0.143001
			3	0.204981	7	0.201971
			7	0.178755	9	0.219244
			11	0.093778	11	0.326258
				BIAS CORR		
				0.529796		0.023377
				0.012711		98.47
				97.49		
				EFFICIENCY		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	LOCATION		SCALE	
			i		j	
12	11	1	1	0.567516	5	0.300229
			4	0.248553	9	0.267683
			9	0.193931	11	0.330327
			BIAS CORR		0.498770	
			VAR COEFF		0.013192	
			EFFICIENCY		95.86	
12	11	2	1	0.669608	7	0.463000
			7	0.330392	11	0.410893
			BIAS CORR		0.464924	
			VAR COEFF		0.013951	
			EFFICIENCY		90.63	
12	11	3	1	1.000000	10	0.401713
			BIAS CORR		0.255832	
			VAR COEFF		0.017883	
			EFFICIENCY		70.71	
12	10	1	1	0.480812	1	0.027775
			2	0.097603	2	0.040947
			3	0.071282	3	0.050745
			4	0.058443	4	0.062896
			5	0.049837	5	0.068309
			6	0.045042	6	0.067511
			7	0.040625	7	0.068179
			8	0.037819	8	0.100874
			9	0.035219	9	0.111736
			10	0.083781	10	0.344874
			BIAS CORR		0.919249	
			VAR COEFF		0.017731	
			EFFICIENCY		100.00	
			EFF (M/N)		98.87	
12	12	1	1	0.481065	2	0.058422
			2	0.097817	3	0.057724
			3	0.070947	4	0.062408
			4	0.058467	5	0.068788
			5	0.044460	6	0.087574
			6	0.066698	7	0.088155
			8	0.056837	8	0.100917

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

A	M	L	I	LOCATION	I	SCALE
			9	0.035030	9	0.111250
			10	0.083422	10	0.399948
			BIAS CORR	0.518697		
			VAR COEFF	0.012738		0.025341
			EFFICIENCY	99.94		99.97
12	10	11	1	0.481486	2	0.080925
			2	0.097447	4	0.089949
			3	0.072013	5	0.068156
			4	0.057598	6	0.082921
			5	0.073427	7	0.087715
			7	0.082745	8	0.101450
			9	0.052155	9	0.110797
			10	0.083131	10	0.400239
			BIAS CORR	0.518464		
			VAR COEFF	0.012747		0.025354
			EFFICIENCY	99.87		99.92
12	10	7	1	0.401731	2	0.080944
			2	0.098121	4	0.123601
			3	0.070606	6	0.116778
			4	0.083734	7	0.087190
			6	0.091095	8	0.107347
			8	0.070817	9	0.110331
			10	0.097892	10	0.400639
			BIAS CORR	0.510028		
			VAR COEFF	0.012757		0.025375
			EFFICIENCY	99.79		99.89
12	10	6	1	0.412343	2	0.081004
			2	0.129661	4	0.123456
			4	0.121430	6	0.162776
			6	0.091228	8	0.142629
			8	0.077099	9	0.110797
			10	0.098034	10	0.401989
			BIAS CORR	0.516340		
			VAR COEFF	0.012781		0.025409
			EFFICIENCY	99.61		99.71
12	10	5	1	0.484469	2	0.124728
			2	0.139103	3	0.143120

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
11	10	4	4	0.145176	7	0.183321
			7	0.127823	9	0.157157
			10	0.112428	10	0.401170
			BIAS CORR	0.916147		
			VAR COEFF	0.012828		0.025470
			EFFICIENCY	99.24		99.47
12	10	4	1	0.926991	3	0.155985
			3	0.161160	6	0.196947
			6	0.165153	8	0.206579
			10	0.127096	10	0.449522
			BIAS CORR	0.914898		
			VAR COEFF	0.012924		0.025569
			EFFICIENCY	98.90		99.08
12	10	5	1	0.967910	5	0.272157
			4	0.248953	8	0.246801
			9	0.183931	10	0.463258
			BIAS CORR	0.498770		
			VAR COEFF	0.013192		0.025795
			EFFICIENCY	96.91		98.21
12	12	7	1	0.669608	6	0.410980
			7	0.330392	10	0.941061
			BIAS CORR	0.464924		
			VAR COEFF	0.013451		0.026424
			EFFICIENCY	91.25		95.87
12	12	1	1	1.000000	10	0.801713
			BIAS CORR	0.298832		
			VAR COEFF	0.017885		0.030454
			EFFICIENCY	71.10		83.19
12	4	4	1	0.489095	1	0.030981
			2	0.098281	2	0.044589
			3	0.072430	3	0.059248
			4	0.057813	4	0.063897
			5	0.051678	5	0.081424
			6	0.044196	6	0.08720
			7	0.041822	7	0.101482
			8	0.037707	8	0.109871

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
12	9	8	9	0.111248	9	0.524559
			BIAS CORR	0.502600		
			VAR COEFF	0.012843		0.028178
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.01		74.85
			1	0.485380	2	0.064089
			2	0.098189	3	0.059228
			3	0.072884	4	0.063914
			4	0.057205	5	0.083410
			5	0.052324	6	0.084791
12	9	7	6	0.043784	7	0.101439
			7	0.062360	8	0.109946
			8	0.127874	9	0.524717
			BIAS CORR	0.502092		
			VAR COEFF	0.012850		0.028187
			EFFICIENCY	99.94		99.97
			1	0.485714	2	0.090372
			2	0.098122	4	0.095493
			3	0.073160	5	0.083269
			4	0.056973	6	0.085199
12	9	6	5	0.074788	7	0.100937
			7	0.083240	8	0.110553
			8	0.128003	9	0.524773
			BIAS CORR	0.501858		
			VAR COEFF	0.012859		0.028204
			EFFICIENCY	99.87		99.91
			1	0.486233	2	0.090437
			2	0.098175	4	0.136630
			3	0.100198	6	0.126580
			5	0.103852	7	0.100320
12	9	5	7	0.083368	8	0.111664
			8	0.128174	9	0.524712
			BIAS CORR	0.501867		
			VAR COEFF	0.012873		0.028233
			EFFICIENCY	99.77		99.81
			1	0.487566	3	0.137720
			2	0.131118	5	0.159384

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			4	0.122257	7	0.143253
			6	0.114081	8	0.108414
			9	0.145028	9	0.527139
			BIAS CORR	0.500833		
			VAR COEFF	0.012912		0.028268
			EFFICIENCY	99.47		99.68
12	9	4	1	0.529064	3	0.138023
			3	0.182425	5	0.159996
			6	0.142450	7	0.202690
			9	0.146061	9	0.576047
			BIAS CORR	0.501726		
			VAR COEFF	0.012986		0.028334
			EFFICIENCY	98.89		99.45
12	9	2	1	0.567516	4	0.234046
			4	0.248553	7	0.244022
			9	0.183931	9	0.578971
			BIAS CORR	0.498770		
			VAR COEFF	0.013192		0.028495
			EFFICIENCY	97.35		98.89
12	9	2	1	0.669608	5	0.365262
			7	0.330392	9	0.672036
			BIAS CORR	0.464924		
			VAR COEFF	0.013951		0.028953
			EFFICIENCY	92.05		97.32
12	9	1	1	1.000000	9	0.901332
			BIAS CORR	0.255832		
			VAR COEFF	0.017883		0.031647
			EFFICIENCY	71.81		89.04
12	8	3	1	0.490415	1	0.034489
			2	0.099743	2	0.052123
			3	0.072078	3	0.060584
			4	0.060301	4	0.082071
			5	0.050017	5	0.082216
			6	0.046060	6	0.102843
			7	0.041243	7	0.109863
			8	0.140064	8	0.659253



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.484141		0.031745
				0.012987		100.00
				100.00		66.44
				96.93		
12	8	7	1	0.490681	2	0.073834
			2	0.099962	3	0.060562
			3	0.071740	4	0.082096
			4	0.060905	5	0.082199
			5	0.049643	6	0.102928
			6	0.067949	7	0.109841
			8	0.159120	8	0.659520
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.483767		0.031756
				0.012995		99.46
				99.94		
	8	6	1	0.491037	2	0.100711
			2	0.100100	4	0.114388
			3	0.071667	5	0.082055
			4	0.085481	6	0.103347
			6	0.092391	7	0.109328
			8	0.159325	8	0.660201
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.483623		0.031774
				0.013005		99.91
				99.86		
12	8	5	1	0.491925	2	0.100774
			2	0.132117	4	0.154924
			4	0.123743	6	0.144123
			6	0.092528	7	0.108719
			8	0.159687	8	0.661233
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.483896		0.031802
				0.013029		99.82
				99.67		
	8	4	1	0.533745	2	0.100858
			3	0.158239	4	0.155418
			5	0.127977	6	0.201545
			8	0.180038	8	0.712451
				BIAS CORR		
				VAR COEFF		
				0.483955		0.031857
				0.013099		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				99.15		99.65
			EFFICIENCY			
12	8	3	1	0.569792	3	0.193928
			4	0.226720	6	0.243835
			8	0.203487	8	0.714660
			BIAS CORR	0.484226		
			VAR COEFF	0.013249		0.031973
			EFFICIENCY	98.02		99.29
12	8	2	1	0.669608	5	0.338521
			7	0.330392	8	0.769575
			BIAS CORR	0.464924		
			VAR COEFF	0.013951		0.032318
			EFFICIENCY	93.09		98.23
12	8	1	1	1.000000	8	1.006998
			BIAS CORR	0.255892		
			VAR COEFF	0.017883		0.034201
			EFFICIENCY	72.62		92.82
12	7	7	1	0.497452	1	0.039951
			2	0.100530	2	0.056350
			3	0.074521	3	0.076925
			4	0.058983	4	0.081994
			5	0.052503	5	0.103580
			6	0.045512	6	0.111376
			7	0.170499	7	0.804567
			BIAS CORR	0.463712		
			VAR COEFF	0.013171		0.036340
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.57		58.03
12	7	6	1	0.497812	2	0.081504
			2	0.100463	3	0.076907
			3	0.074810	4	0.082028
			4	0.058744	5	0.103571
			5	0.075855	6	0.111479
			7	0.192317	7	0.809869
			BIAS CORR	0.463429		
			VAR COEFF	0.013179		0.036364
			EFFICIENCY	99.93		99.96

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
12	7	5	1	0.498364	2	0.115654
			2	0.100520	4	0.123047
			3	0.102692	5	0.103417
			5	0.105824	6	0.112022
			7	0.192600	7	0.810135
				BIAS CORR		
				VAR COEFF		0.036392
				EFFICIENCY		99.88
12	7	4	1	0.499961	2	0.115762
			2	0.134193	4	0.174173
			4	0.149079	6	0.163451
			7	0.216767	7	0.810749
				BIAS CORR		
				VAR COEFF		0.036436
				EFFICIENCY		99.76
12	7	3	1	0.543703	3	0.177236
			3	0.211217	5	0.202588
			7	0.245080	7	0.866299
				BIAS CORR		
				VAR COEFF		0.036499
				EFFICIENCY		99.59
12	7	2	1	0.669608	4	0.299689
			7	0.330392	7	0.922394
				BIAS CORR		
				VAR COEFF		0.036754
				EFFICIENCY		98.90
12	7	1	1	1.000000	7	1.125249
				BIAS CORR		
				VAR COEFF		0.038117
				EFFICIENCY		95.36
12	6	6	1	0.506268	1	0.045768
			2	0.102876	2	0.068795
			3	0.074484	3	0.082423
			4	0.061390	4	0.103222
			5	0.052243	5	0.114560

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			6	0.202739	6	0.983486
			BIAS CORR	0.440994		
			VAR COEFF	0.013409		0.042515
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.87		49.61
12	6	5	1	0.506663	2	0.097617
			2	0.103025	3	0.082404
			3	0.074410	4	0.103264
			4	0.087256	5	0.114555
			6	0.228646	6	0.983977
			BIAS CORR	0.440784		
			VAR COEFF	0.013420		0.042535
			EFFICIENCY	99.92		99.95
12	6	4	1	0.507622	2	0.134214
			2	0.136278	4	0.147223
			4	0.126990	5	0.114393
			6	0.229110	6	0.984866
			BIAS CORR	0.440968		
			VAR COEFF	0.013447		0.042568
			EFFICIENCY	99.72		99.87
12	6	3	1	0.551129	2	0.134350
			3	0.189190	4	0.203800
			6	0.259680	6	1.042491
			BIAS CORR	0.441457		
			VAR COEFF	0.013529		0.042622
			EFFICIENCY	99.11		99.75
12	6	2	1	0.649165	3	0.257513
			6	0.350835	6	1.100579
			BIAS CORR	0.443616		
			VAR COEFF	0.013956		0.042814
			EFFICIENCY	96.08		99.30
12	6	1	1	1.000000	6	1.264094
			BIAS CORR	0.255832		
			VAR COEFF	0.017883		0.043787
			EFFICIENCY	74.98		97.09

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
12	5	5	1	0.518147	1	0.055328
			2	0.104736	2	0.079730
			3	0.076753	3	0.102269
			4	0.061934	4	0.119217
			5	0.238430	5	1.098832
			BIAS CORR	0.415522		
			VAR COEFF	0.013722		0.051200
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.73		41.20
12	5	4	1	0.518761	2	0.114583
			2	0.104803	3	0.102259
			3	0.106154	4	0.119277
			5	0.270282	5	1.194477
			BIAS CORR	0.415403		
			VAR COEFF	0.013739		0.051230
			EFFICIENCY	99.88		99.94
12	5	3	1	0.562277	2	0.160028
			3	0.166197	4	0.173859
			5	0.271526	5	1.195487
			BIAS CORR	0.416444		
			VAR COEFF	0.013806		0.051281
			EFFICIENCY	99.39		99.84
12	5	2	1	0.631670	3	0.244986
			5	0.368330	5	1.259105
			BIAS CORR	0.418135		
			VAR COEFF	0.014078		0.051398
			EFFICIENCY	97.48		99.62
12	5	1	1	1.000000	5	1.435794
			BIAS CORR	0.255832		
			VAR COEFF	0.017883		0.052096
			EFFICIENCY	76.73		98.28
12	4	4	1	0.534181	1	0.068267
			2	0.107977	2	0.099937
			3	0.078568	3	0.124908
			4	0.279274	4	1.463871
			BIAS CORR	0.386486		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.064338
				EFFICIENCY		100.00
				EFF(M/N)		32.78
12	4	3	1	0.535253	2	0.142960
			2	0.143103	3	0.124910
			4	0.321644	4	1.464842
				BIAS CORR		
				VAR COEFF		0.064384
				EFFICIENCY		99.93
12	4	2	1	0.616758	2	0.198511
			4	0.383242	4	1.532917
				BIAS CORR		
				VAR COEFF		0.064459
				EFFICIENCY		99.81
12	4	1	1	1.000000	4	1.662390
				BIAS CORR		
				VAR COEFF		0.064940
				EFFICIENCY		99.07
12	3	3	1	0.557571	1	0.090006
			2	0.112226	2	0.130780
			3	0.330203	3	1.842788
				BIAS CORR		
				VAR COEFF		0.086508
				EFFICIENCY		100.00
				EFF(M/N)		24.38
12	3	2	1	0.604376	2	0.187542
			3	0.395624	3	1.844294
				BIAS CORR		
				VAR COEFF		0.086589
				EFFICIENCY		99.91
12	3	1	1	1.000000	3	1.990776
				BIAS CORR		
				VAR COEFF		0.086875
				EFFICIENCY		99.58

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

	N	L	I	LOCATION	I	SCALE
12	2	2	1	0.595344	1	0.131469
			2	0.404656	2	2.463075
				BIAS CORR		0.131775
				VAR COEFF		100.00
				EFFICIENCY		16.01
				EFF(M/N)		
12	2	1	1	1.000000	2	2.548802
				BIAS CORR		0.131947
				VAR COEFF		99.87
				EFFICIENCY		
12	1	1	1	1.000000	1	3.908820
				BIAS CORR		0.273240
				VAR COEFF		100.00
				EFFICIENCY		7.72
				EFF(M/N)		
13	13	13	1	0.468593	1	0.020578
			2	0.093852	2	0.030087
			3	0.068362	3	0.037929
			4	0.055368	4	0.045041
			5	0.047863	5	0.051856
			6	0.042171	6	0.058560
			7	0.038930	7	0.065455
			8	0.035505	8	0.072618
			9	0.033560	9	0.080448
			10	0.031423	10	0.089240
			11	0.029819	11	0.099832
			12	0.028217	12	0.114074
			13	0.026337	13	0.148437
				BIAS CORR		0.019453
				VAR COEFF		100.00
				EFFICIENCY		100.00
				EFF(M/N)		
13	13	12	1	0.468874	2	0.043098
			2	0.093539	3	0.037908
			3	0.069361	4	0.045057
			4	0.053830	5	0.051818
			5	0.049452	6	0.058637

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			6	0.041159	7	0.065380
			7	0.058167	8	0.072709
			9	0.049989	9	0.080410
			10	0.031040	10	0.089282
			11	0.030101	11	0.099844
			12	0.028126	12	0.114098
			13	0.026361	13	0.148466
			BIAS CORR	0.539803		
			VAR COEFF	0.011499		0.019456
			EFFICIENCY	99.95		99.98
13	13	11	1	0.468937	2	0.059786
			2	0.094556	4	0.065472
			3	0.066745	5	0.051566
			4	0.058140	6	0.059181
			5	0.045021	7	0.064518
			6	0.063808	8	0.073771
			8	0.072153	9	0.079569
			10	0.046634	10	0.089795
			11	0.029236	11	0.099699
			12	0.028436	12	0.114170
			13	0.026332	13	0.148510
			BIAS CORR	0.539460		
			VAR COEFF	0.011505		0.019463
			EFFICIENCY	99.90		99.95
13	13	10	1	0.469443	2	0.059796
			2	0.093244	4	0.090655
			3	0.070457	6	0.085314
			4	0.052125	7	0.063424
			5	0.071343	8	0.075683
			7	0.078043	9	0.077468
			9	0.068045	10	0.091394
			11	0.042920	11	0.099046
			12	0.027959	12	0.114394
			13	0.026402	13	0.148565
			BIAS CORR	0.539037		
			VAR COEFF	0.011511		0.019472
			EFFICIENCY	99.85		99.90
13	13	9	1	0.469532	2	0.059736



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			2	0.094861	4	0.091061
			3	0.066350	6	0.118002
			4	0.080438	8	0.106137
			6	0.086362	9	0.076385
			8	0.072343	10	0.092668
			10	0.064887	11	0.098377
			12	0.038898	12	0.114716
			13	0.026334	13	0.148651
			BIAS CORR	0.938321		
			VAR COEFF	0.011520		0.019487
			EFFICIENCY	99.77		99.82
13	13	4	1	0.470508	3	0.091709
			2	0.093369	9	0.109002
			3	0.049082	7	0.132319
			5	0.048269	9	0.116489
			7	0.078264	10	0.089935
			9	0.068434	11	0.101474
			11	0.062489	12	0.113879
			13	0.033989	13	0.148928
			BIAS CORR	0.936571		
			VAR COEFF	0.011937		0.019510
			EFFICIENCY	99.62		99.71
13	13	7	1	0.471461	3	0.113797
			2	0.124727	6	0.144071
			4	0.116413	8	0.147664
			6	0.089485	10	0.126348
			8	0.093145	11	0.098872
			11	0.074446	12	0.115128
			13	0.033771	13	0.149137
			BIAS CORR	0.935304		
			VAR COEFF	0.011968		0.019554
			EFFICIENCY	99.35		99.48
13	13	6	1	0.473044	4	0.153917
			2	0.129157	7	0.161209
			4	0.138741	9	0.165599
			7	0.120291	11	0.137875
			10	0.102391	12	0.114751
			13	0.039907	13	0.149783

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.531054		
				0.011617		0.019627
				98.93		99.11
13	13	5	1	0.513256	4	0.187917
			3	0.174078	8	0.205010
			6	0.134293	10	0.188770
			9	0.106184	12	0.152088
			12	0.072188	13	0.150644
				BIAS CORR		
				0.525171		
				VAR COEFF		0.019762
				0.011687		98.44
				EFFICIENCY		
				98.34		
13	13	4	1	0.518353	6	0.294138
			3	0.197389	10	0.251944
			7	0.169678	12	0.153861
			11	0.114581	13	0.152561
				BIAS CORR		
				0.511093		
				VAR COEFF		0.020020
				0.011807		97.17
				EFFICIENCY		
				97.35		
13	13	3	1	0.558581	7	0.360951
			4	0.260117	11	0.289278
			10	0.181302	13	0.186975
				BIAS CORR		
				0.494101		
				VAR COEFF		0.020523
				0.012067		94.79
				EFFICIENCY		
				95.25		
13	13	2	1	0.657776	9	0.549763
			7	0.342224	13	0.247182
				BIAS CORR		
				0.448734		
				VAR COEFF		0.022224
				0.012778		87.53
				EFFICIENCY		
				89.94		
13	13	1	1	1.000000	11	0.782291
				0.245795		
				VAR COEFF		0.028206
				0.016508		68.97
				EFFICIENCY		
				69.52		
13	12	12	1	0.470522	1	0.022281
			2	0.094245	2	0.032637

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			3	0.068608	3	0.040874
			4	0.055677	4	0.049292
			5	0.047895	5	0.055179
			6	0.042550	6	0.064694
			7	0.038859	7	0.069516
			8	0.035791	8	0.079529
			9	0.033572	9	0.086397
			10	0.031530	10	0.096553
			11	0.029811	11	0.107371
			12	0.050940	12	0.261083
			BIAS CORR	0.528616		
			VAR COEFF	0.011541		0.021077
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.59		92.29
13	12	11	1	0.470808	2	0.046725
			2	0.093930	3	0.040852
			3	0.069615	4	0.049310
			4	0.054126	5	0.055139
			5	0.049497	6	0.064779
			6	0.041529	7	0.069435
			7	0.058251	8	0.079629
			9	0.050133	9	0.086358
			10	0.031144	10	0.096599
			11	0.030095	11	0.107385
			12	0.050870	12	0.261140
			BIAS CORR	0.528288		
			VAR COEFF	0.011546		0.021081
			EFFICIENCY	99.95		99.98
13	12	10	1	0.470866	2	0.064711
			2	0.094949	4	0.071312
			3	0.066992	5	0.054868
			4	0.058448	6	0.065367
			5	0.045054	7	0.068508
			6	0.064150	8	0.080774
			8	0.072413	9	0.085453
			10	0.046746	10	0.097155
			11	0.029229	11	0.107231
			12	0.051155	12	0.261264
			BIAS CORR	0.527964		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		
				EFFICIENCY		
13	12	9	1	0.471382	2	0.064724
			2	0.093633	4	0.098111
			3	0.070718	6	0.093177
			4	0.052414	7	0.067344
			5	0.071580	8	0.082812
			7	0.078307	9	0.083220
			9	0.068272	10	0.098860
			11	0.042958	11	0.106540
			12	0.050736	12	0.261560
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.011552		0.021088
				99.90		99.94
13	12	8	1	0.471461	2	0.064663
			2	0.095253	4	0.098547
			3	0.066597	6	0.127891
			4	0.080762	8	0.115154
			6	0.086720	9	0.082074
			8	0.072602	10	0.100217
			10	0.064989	11	0.105829
			12	0.061616	12	0.261993
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.011559		0.021099
				99.85		99.89
13	12	7	1	0.472202	3	0.099426
			2	0.124777	5	0.113678
			4	0.116535	7	0.143050
			6	0.086747	9	0.125912
			8	0.072988	10	0.092945
			10	0.065085	11	0.109697
			12	0.061667	12	0.261398
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.011587		0.021145
				99.60		99.68
13	12	6	1	0.473918	3	0.123155
			2	0.125162	6	0.156163

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
13	12	5	4	0.138782	8	0.159815
			7	0.120366	10	0.136441
			10	0.079837	11	0.106397
			12	0.061934	12	0.262957
			BIAS CORR	0.525714		
			VAR COEFF	0.011624		0.021194
			EFFICIENCY	99.28		99.45
13	12	5	1	0.513256	4	0.166991
			3	0.174078	7	0.174320
			6	0.134293	9	0.179108
			9	0.106184	11	0.148647
			12	0.072188	12	0.263258
			BIAS CORR	0.525171		
			VAR COEFF	0.011687		0.021282
			EFFICIENCY	98.75		99.04
13	12	4	1	0.518353	4	0.203681
			3	0.197389	8	0.222156
			7	0.159678	10	0.203781
			11	0.114581	12	0.304381
			BIAS CORR	0.511093		
			VAR COEFF	0.011807		0.021436
			EFFICIENCY	97.75		98.32
13	12	3	1	0.558581	6	0.319171
			4	0.260117	10	0.272487
			10	0.181302	12	0.308403
			BIAS CORR	0.494101		
			VAR COEFF	0.012067		0.021739
			EFFICIENCY	95.64		96.95
13	12	2	1	0.657776	8	0.471905
			7	0.342224	12	0.385110
			BIAS CORR	0.448734		
			VAR COEFF	0.012778		0.022705
			EFFICIENCY	90.32		92.83
13	12	1	1	1.000000	11	0.782291
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.028206

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				69.91		74.72
				EFFICIENCY		
13	11	11	1	0.473287	1	0.024359
			2	0.094721	2	0.035199
			3	0.069275	3	0.046089
			4	0.055322	4	0.050011
			5	0.049298	5	0.066472
			6	0.041401	6	0.062837
			7	0.040259	7	0.082395
			8	0.035180	8	0.082245
			9	0.034069	9	0.095968
			10	0.031446	10	0.103891
			11	0.075741	11	0.371674
				BIAS CORR		
				0.515262		
				VAR COEFF		0.023005
				0.011608		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		84.56
				99.01		
13	11	10	1	0.473565	2	0.050602
			2	0.094411	3	0.046066
			3	0.070264	4	0.050031
			4	0.053798	5	0.066431
			5	0.050071	6	0.062928
			6	0.040399	7	0.082310
			7	0.059319	8	0.082355
			9	0.050347	9	0.095928
			10	0.031067	10	0.103944
			11	0.075958	11	0.371752
				BIAS CORR		
				0.514959		
				VAR COEFF		0.023011
				0.011614		
				EFFICIENCY		99.98
				99.95		
13	11	9	1	0.473850	2	0.070887
			2	0.094235	4	0.074843
			3	0.070736	5	0.066131
			4	0.053307	6	0.063590
			5	0.071443	7	0.081271
			7	0.078791	8	0.083649
			9	0.051256	9	0.094913
			10	0.029931	10	0.104574
			11	0.076451	11	0.371720

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.514839		
			VAR COEFF	0.011619		0.023020
			EFFICIENCY	99.90		99.94
13	11	8	1	0.474124	2	0.050262
			2	0.094118	3	0.069919
			3	0.071351	5	0.123766
			4	0.052102	7	0.114486
			5	0.072375	8	0.079035
			7	0.078828	9	0.099887
			9	0.068434	10	0.101198
			11	0.088668	11	0.373204
			BIAS CORR	0.514208		
			VAR COEFF	0.011626		0.023034
			EFFICIENCY	99.85		99.88
13	11	7	1	0.474543	3	0.107795
			2	0.094141	5	0.123752
			3	0.095864	7	0.115035
			5	0.099122	8	0.078344
			7	0.078898	9	0.100510
			9	0.068791	10	0.100912
			11	0.088641	11	0.373578
			BIAS CORR	0.514307		
			VAR COEFF	0.011636		0.023053
			EFFICIENCY	99.76		99.80
13	11	6	1	0.475538	3	0.107908
			2	0.125816	5	0.124442
			4	0.117403	7	0.156504
			6	0.086598	9	0.136749
			8	0.093771	10	0.100296
			11	0.100874	11	0.374361
			BIAS CORR	0.512902		
			VAR COEFF	0.011668		0.023079
			EFFICIENCY	99.48		99.68
13	11	5	1	0.477947	3	0.107848
			2	0.126423	5	0.125697
			4	0.138859	7	0.156959
			7	0.142906	9	0.194749

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			11	0.113864	11	0.416397
			BIAS CORR	0.510209		
			VAR COEFF	0.011721		0.023148
			EFFICIENCY	99.04		99.38
13	11	4	1	0.518353	4	0.181123
			3	0.197389	7	0.191464
			7	0.169678	9	0.194282
			11	0.114581	11	0.418508
			BIAS CORR	0.511093		
			VAR COEFF	0.011807		0.023244
			EFFICIENCY	98.32		98.97
13	11	3	1	0.558581	5	0.281597
			4	0.260117	9	0.265954
			10	0.181302	11	0.421640
			BIAS CORR	0.494101		
			VAR COEFF	0.012067		0.023460
			EFFICIENCY	96.20		98.06
13	11	2	1	0.657776	7	0.422499
			7	0.342224	11	0.505055
			BIAS CORR	0.448734		
			VAR COEFF	0.012778		0.024092
			EFFICIENCY	90.85		95.49
13	11	1	1	1.000000	11	0.782291
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.028206
			EFFICIENCY	70.32		81.56
13	10	10	1	0.476337	1	0.026567
			2	0.095719	2	0.040237
			3	0.068745	3	0.045077
			4	0.058079	4	0.067585
			5	0.046073	5	0.053877
			6	0.045430	6	0.089089
			7	0.037725	7	0.075481
			8	0.036864	8	0.098135
			9	0.033558	9	0.101522
			10	0.100970	10	0.485841



TABLE II:  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
13	10	9		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
			1	0.500362		
				0.011697		0.025326
				100.00		100.00
				98.26		76.61
			2	0.476990	2	0.057039
			3	0.096081	3	0.045052
13	10	8	4	0.068008	4	0.067611
			5	0.059139	5	0.053830
			6	0.045226	6	0.089194
			7	0.065274	7	0.075386
			8	0.054989	8	0.098259
			9	0.032844	9	0.101480
			10	0.101450	10	0.485987
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
13	10	7	1	0.500167		
				0.011702		0.025333
				99.95		99.97
			2	0.477171	2	0.076876
			3	0.096408	3	0.091876
			4	0.067157	4	0.053537
			5	0.060803	5	0.089840
			6	0.043279	6	0.074371
			7	0.066417	7	0.099522
			8	0.072945	8	0.100486
13	10	6	9	0.115819	9	0.486571
			10	0.499733	10	0.025341
				VAR COEFF		
				EFFICIENCY		
				99.91		99.94
			1	0.477407	2	0.076889
			2	0.096559	3	0.118023
			3	0.067015	4	0.116959
			4	0.082029	5	0.073257
			5	0.087870	6	0.101498
13	10	5	6	0.073142	7	0.098311
			7	0.115979	8	0.487850
			8	0.499739	9	0.025351
				VAR COEFF		
				EFFICIENCY		
				99.85		99.90

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
13	10	6	1	0.478157	2	0.076830
			2	0.126270	4	0.118505
			4	0.118028	6	0.154727
			6	0.087898	8	0.136687
			8	0.073530	9	0.097075
			10	0.116118	10	0.487037
			BIAS CORR	0.500101		
			VAR COEFF	0.011734		0.025372
			EFFICIENCY	99.68		99.82
13	10	5	1	0.479928	2	0.076575
			2	0.126667	4	0.119340
			4	0.140689	6	0.155443
			7	0.121458	8	0.189991
			10	0.131258	10	0.532360
			BIAS CORR	0.498469		
			VAR COEFF	0.011772		0.025421
			EFFICIENCY	99.36		99.63
13	10	4	1	0.520476	4	0.165758
			3	0.175273	6	0.155609
			6	0.157666	8	0.190525
			10	0.146585	10	0.533701
			BIAS CORR	0.498176		
			VAR COEFF	0.011847		0.025486
			EFFICIENCY	98.73		99.37
13	10	3	1	0.558581	4	0.243724
			4	0.260117	8	0.263853
			10	0.181302	10	0.536900
			BIAS CORR	0.494101		
			VAR COEFF	0.012067		0.025661
			EFFICIENCY	96.93		98.69
13	10	2	1	0.657776	6	0.381903
			7	0.342224	10	0.623635
			BIAS CORR	0.448734		
			VAR COEFF	0.012778		0.026087
			EFFICIENCY	91.54		97.08
13	10	1	1	1.000000	10	0.874048

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.028901
			EFFICIENCY	70.85		87.63
13	9	9	1	0.481484	1	0.030084
			2	0.095896	2	0.040858
			3	0.071776	3	0.062733
			4	0.053758	4	0.049331
			5	0.052840	5	0.093478
			6	0.040151	6	0.068810
			7	0.041428	7	0.101683
			8	0.035545	8	0.100300
			9	0.127123	9	0.607284
			BIAS CORR	0.483946		
			VAR COEFF	0.011808		0.029171
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.33		69.05
13	9	8	1	0.481766	2	0.059884
			2	0.095585	3	0.062710
			3	0.072769	4	0.049355
			4	0.052234	5	0.093437
			5	0.054408	6	0.068923
			6	0.039159	7	0.101584
			7	0.060675	8	0.100441
			8	0.143404	9	0.607407
			BIAS CORR	0.483626		
			VAR COEFF	0.011814		0.028179
			EFFICIENCY	99.95		99.97
13	9	7	1	0.482035	2	0.059829
			2	0.095419	3	0.085894
			3	0.073204	5	0.119073
			4	0.051803	6	0.068289
			5	0.074315	7	0.102928
			7	0.079548	8	0.098586
			9	0.143676	9	0.608667
			BIAS CORR	0.483523		
			VAR COEFF	0.011819		0.028188
			EFFICIENCY	99.91		99.94

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
12	9	6	1	0.482450	2	0.059535
			2	0.095441	3	0.086282
			3	0.097576	5	0.153423
			5	0.100908	7	0.136691
			7	0.079616	8	0.097059
			9	0.144008	9	0.610105
			BIAS CORR	0.483629		
			VAR COEFF	0.011829		0.028205
			EFFICIENCY	99.82		99.88
12	9	5	1	0.483716	3	0.131168
			2	0.128234	5	0.153428
			4	0.118245	7	0.137357
			6	0.109176	8	0.096259
			9	0.160629	9	0.611081
			BIAS CORR	0.482648		
			VAR COEFF	0.011865		0.028231
			EFFICIENCY	99.52		99.79
12	9	4	1	0.523712	3	0.131344
			3	0.177866	5	0.154310
			6	0.136259	7	0.188354
			9	0.162164	9	0.655884
			BIAS CORR	0.483730		
			VAR COEFF	0.011927		0.028271
			EFFICIENCY	99.00		99.65
12	9	3	1	0.560460	4	0.219790
			4	0.238730	7	0.232136
			9	0.200810	9	0.658301
			BIAS CORR	0.481998		
			VAR COEFF	0.012095		0.028426
			EFFICIENCY	97.63		99.10
12	9	2	1	0.657776	5	0.343611
			7	0.342224	9	0.748601
			BIAS CORR	0.448734		
			VAR COEFF	0.012778		0.028726
			EFFICIENCY	92.41		98.07
12	9	1	1	1.000000	9	0.969420

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.245795				
				VAR COEFF	0.016508	0.030745			
				EFFICIENCY	71.53	91.63			
13	6	6	1	0.486988	1	0.032715			
			2	0.098244	2	0.052457			
			3	0.068939	3	0.051047			
			4	0.060735	4	0.089292			
			5	0.046319	5	0.067287			
			6	0.045602	6	0.103980			
			7	0.039347	7	0.100875			
			8	0.153827	8	0.734892			
				BIAS CORR	0.465888				
				VAR COEFF	0.011949		0.031739		
				EFFICIENCY	100.00		100.00		
				LFF(M/N)	96.19		61.29		
			13	6	7	1	0.487158	2	0.073150
2	0.098618	3				0.051019			
3	0.068190	4				0.089326			
4	0.061805	5				0.067237			
5	0.045483	6				0.104110			
6	0.066272	7				0.100768			
8	0.172474	8				0.740186			
	BIAS CORR	0.465642							
	VAR COEFF	0.011954					0.031749		
	EFFICIENCY	99.95					99.97		
13	6	6				1	0.487421	2	0.095624
						2	0.098779	4	0.116768
						3	0.068043	5	0.066978
			4	0.084115	6	0.104789			
			6	0.088818	7	0.099654			
			8	0.172824	8	0.741161			
				BIAS CORR	0.465597				
				VAR COEFF	0.011962		0.031760		
				EFFICIENCY	99.89		99.93		
			13	6	6	1	0.488195	2	0.095662
						2	0.12949	4	0.149479
						4	0.120668	6	0.138679

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			6	0.088848	7	0.098342
			8	0.173339	8	0.742534
		BIAS CORR		0.465922		
		VAR COEFF		0.011982		0.031776
		EFFICIENCY		99.72		99.88
13	8	4		0.490509	2	0.095617
				0.129399	4	0.150161
			4	0.165121	6	0.189422
			8	0.214972	8	0.789822
		BIAS CORR		0.464315		
		VAR COEFF		0.012039		0.031813
		EFFICIENCY		99.25		99.77
12	8	3	1	0.563059	4	0.208256
			4	0.219797	6	0.189736
			8	0.217144	8	0.792377
		BIAS CORR		0.466881		
		VAR COEFF		0.012165		0.031914
		EFFICIENCY		98.22		99.45
13	8	2	1	0.657776	4	0.303757
			7	0.342224	8	0.886309
		BIAS CORR		0.448734		
		VAR COEFF		0.012778		0.032175
		EFFICIENCY		93.51		98.64
13	8	1	1	1.000000	8	1.073582
		BIAS CORR		0.245795		
		VAR COEFF		0.016508		0.033633
		EFFICIENCY		72.38		94.37
12	7	7	1	0.494434	1	0.038854
			2	0.098170	2	0.051793
			3	0.073685	3	0.078693
			4	0.055982	4	0.071581
			5	0.051844	5	0.103329
			6	0.043392	6	0.103418
			7	0.182493	7	0.889305
		BIAS CORR		0.446033		
		VAR COEFF		0.012125		0.036344

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				94.79		53.52
				EFFICIENCY		
				EFF(M/N)		
13	7	6	1	0.494759	2	0.076370
			2	0.097991	3	0.078673
			3	0.074170	4	0.071613
			4	0.055512	5	0.103286
			5	0.073902	6	0.103573
			7	0.203667	7	0.889549
				BIAS CORR		
				0.445841		
				VAR COEFF		0.036358
				0.012132		99.96
				EFFICIENCY		
				99.94		
13	7	5	1	0.495235	2	0.076328
			2	0.098021	3	0.112314
			3	0.100294	5	0.140439
			5	0.102403	6	0.102757
			7	0.204048	7	0.890684
				BIAS CORR		
				0.445862		
				VAR COEFF		0.036377
				0.012143		99.91
				EFFICIENCY		
				99.85		
13	7	4	1	0.496733	2	0.075931
			2	0.131175	3	0.112925
			4	0.144059	5	0.192169
			7	0.228032	7	0.941530
				BIAS CORR		
				0.445452		
				VAR COEFF		0.036415
				0.012182		99.81
				EFFICIENCY		
				99.53		
13	7	3	1	0.538715	3	0.170215
			3	0.204970	5	0.192211
			7	0.256315	7	0.942725
				BIAS CORR		
				0.445945		
				VAR COEFF		0.036457
				0.012273		99.69
				EFFICIENCY		
				98.79		
13	7	2	1	0.657776	4	0.283767
			7	0.342224	7	0.997910
				BIAS CORR		
				0.448734		
				VAR COEFF		0.036678
				0.012778		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.09
13	7	1	1	1.000000	7	1.192186
				BIAS CORR		
				VAR COEFF		0.037745
				EFFICIENCY		96.29
13	6	5	1	0.503335	1	0.043645
			2	0.101198	2	0.067279
			3	0.072249	3	0.076316
			4	0.060078	4	0.100805
			5	0.050464	5	0.107729
			6	0.212676	6	1.063695
				BIAS CORR		
				VAR COEFF		0.042512
				EFFICIENCY		100.00
				EFF(M/N)		45.76
13	6	5	1	0.503663	2	0.094893
			2	0.101383	3	0.076293
			3	0.072094	4	0.100851
			4	0.084833	5	0.107683
			6	0.238027	6	1.064165
				BIAS CORR		
				VAR COEFF		0.042529
				EFFICIENCY		99.96
13	6	4	1	0.504535	2	0.128529
			2	0.133363	4	0.141879
			4	0.123572	5	0.107366
			6	0.238530	6	1.065057
				BIAS CORR		
				VAR COEFF		0.042554
				EFFICIENCY		99.90
13	6	3	1	0.546968	2	0.128639
			3	0.184238	4	0.194365
			6	0.268794	6	1.119700
				BIAS CORR		
				VAR COEFF		0.042595
				EFFICIENCY		99.80



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	0.640189	3	0.244643
			6	0.359811	6	1.176237
				BIAS CORR		
				VAR COEFF		0.042757
				EFFICIENCY		99.43
13	6	1	1	1.000000	6	1.333079
				BIAS CORR		
				VAR COEFF		0.043539
				EFFICIENCY		97.64
13	5	5	1	0.515494	1	0.053319
			2	0.102741	2	0.075873
			3	0.075096	3	0.098498
			4	0.060124	4	0.113224
			5	0.246546	5	1.276144
				BIAS CORR		
				VAR COEFF		0.051197
				EFFICIENCY		100.00
				EFF(M/N)		38.00
13	5	4	1	0.516051	2	0.109616
			2	0.102783	3	0.098482
			3	0.103396	4	0.113287
			5	0.277769	5	1.276719
				BIAS CORR		
				VAR COEFF		0.051223
				EFFICIENCY		99.95
13	5	3	1	0.558399	2	0.153060
			3	0.162594	4	0.166274
			5	0.279007	5	1.277576
				BIAS CORR		
				VAR COEFF		0.051265
				EFFICIENCY		99.87
13	5	2	1	0.624903	3	0.234546
			5	0.375097	5	1.338404
				BIAS CORR		
				VAR COEFF		0.051360

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		97.64
						99.68
12	5	1	1	1.000000	5	1.508492
				BIAS CORR		0.245795
				VAR COEFF		0.016508
				EFFICIENCY		76.61
						98.58
12	4	4	1	0.531672	1	0.065514
			2	0.106098	2	0.095883
			3	0.076778	3	0.119308
			4	0.285453	4	1.550607
				BIAS CORR		0.371440
				VAR COEFF		0.013049
				EFFICIENCY		100.00
				EFF(M/N)		88.08
						30.24
12	4	3	1	0.532663	2	0.137358
			2	0.140171	3	0.119300
			4	0.327166	4	1.551479
				BIAS CORR		0.371549
				VAR COEFF		0.013074
				EFFICIENCY		99.81
						99.94
13	4	2	1	0.611780	2	0.190016
			4	0.388220	4	1.616846
				BIAS CORR		0.373315
				VAR COEFF		0.013222
				EFFICIENCY		98.69
						99.84
13	4	1	1	1.000000	4	1.741348
				BIAS CORR		0.245795
				VAR COEFF		0.016508
				EFFICIENCY		79.05
						99.23
13	3	3	1	0.555222	1	0.086438
			2	0.110325	2	0.121295
			3	0.334454	3	1.930001
				BIAS CORR		0.338765
				VAR COEFF		0.013633
				EFFICIENCY		100.00
				EFF(M/N)		84.31
						22.49

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-CRDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION		SCALE
13	3	2	1	0.600879	2	0.180048
			3	0.399121	3	1.939240
			BIAS CORR	0.339563		
			VAR COEFF	0.013701		0.086575
			EFFICIENCY	99.50		99.92
13	3	1	1	1.000000	3	2.080164
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.086814
			EFFICIENCY	82.58		99.65
13	2	2	1	0.593114	1	0.126221
			2	0.406886	2	2.575211
			BIAS CORR	0.298884		
			VAR COEFF	0.014579		0.131774
			EFFICIENCY	100.00		100.00
13	2	1		78.83		14.76
			EFF(M/N)			
			1	1.000000	2	2.657664
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.131919
13	1	1		88.32		99.89
			EFFICIENCY			
			1	1.000000	1	4.068429
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.273240
13	1	1	EFFICIENCY	100.00		100.00
			EFF(M/N)	69.62		7.12

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER \* 2.50

N	M	L	I	LOCATION	I	SCALE			
11	11	11	1	0.320265	1	0.019444			
			2	0.097587	2	0.031919			
			3	0.079747	3	0.042860			
			4	0.070917	4	0.053318			
			5	0.066065	5	0.063864			
			6	0.062823	6	0.074826			
			7	0.061130	7	0.086787			
			8	0.059923	8	0.100275			
			9	0.059553	9	0.116699			
			10	0.059795	10	0.138989			
			11	0.062195	11	0.193472			
BIAS CORR				0.722347					
VAR COEFF				0.011612		0.014830			
EFFICIENCY				100.00		100.00			
EFF(M/N)				100.00		100.00			
11	11	10	1	0.320692	2	0.045040			
			2	0.097494	3	0.042835			
			3	0.080243	4	0.053333			
			4	0.070512	5	0.063841			
			5	0.098099	6	0.074897			
			7	0.091461	7	0.086766			
			8	0.059535	8	0.100348			
			9	0.059968	9	0.116723			
			10	0.059707	10	0.139032			
			11	0.062289	11	0.193530			
			BIAS CORR				0.722091		
VAR COEFF				0.011626		0.014834			
EFFICIENCY				99.88		99.97			
11	11	9	1	0.321001	2	0.063201			
			2	0.098167	4	0.076874			
			3	0.079130	5	0.063673			
			4	0.103700	6	0.075273			
			6	0.128030	7	0.086347			
			8	0.088492	8	0.107771			
			9	0.058989	9	0.116601			
			10	0.060188	10	0.139157			
			11	0.062302	11	0.193632			
			BIAS CORR				0.721811		
			VAR COEFF				0.011642		0.014842

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				99.74		99.91
				EFFICIENCY		
11	11	8	1	0.321697	2	0.063238
			2	0.097507	4	0.107766
			3	0.113119	6	0.107311
			5	0.135129	7	0.085816
			7	0.124763	8	0.101549
			9	0.085643	9	0.116231
			10	0.059660	10	0.139449
			11	0.062483	11	0.193794
			BIAS CORR	0.721455		
			VAR COEFF	0.011662		0.014857
			EFFICIENCY	99.57		99.82
11	11	7	1	0.322350	3	0.102683
			2	0.132223	5	0.129518
			4	0.147645	7	0.123758
			6	0.128582	8	0.099253
			8	0.124047	9	0.117943
			10	0.082647	10	0.139148
			11	0.062505	11	0.194182
			BIAS CORR	0.720915		
			VAR COEFF	0.011694		0.014882
			EFFICIENCY	99.30		99.65
11	11	6	1	0.324405	3	0.102983
			2	0.133053	5	0.130100
			4	0.179559	7	0.179043
			7	0.157027	9	0.160650
			9	0.126554	10	0.139454
			11	0.079402	11	0.194783
			BIAS CORR	0.717481		
			VAR COEFF	0.011764		0.014929
			EFFICIENCY	98.71		99.33
11	11	5	1	0.362399	4	0.183983
			3	0.204517	7	0.212548
			6	0.200859	9	0.161117
			9	0.152278	10	0.140604
			11	0.079947	11	0.195810
			BIAS CORR	0.718218		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.015013
				EFFICIENCY		98.78
11	11	4	1	0.368853	5	0.246467
			3	0.238744	8	0.249082
			7	0.233830	10	0.186891
			10	0.158572	11	0.197824
				BIAS CORR		
				VAR COEFF		0.015175
				EFFICIENCY		97.72
11	11	3	1	0.411127	6	0.321379
			4	0.319336	9	0.302272
			9	0.269537	11	0.242189
				BIAS CORR		
				VAR COEFF		0.015547
				EFFICIENCY		95.38
11	11	2	1	0.524233	8	0.527511
			7	0.475767	11	0.291160
				BIAS CORR		
				VAR COEFF		0.016677
				EFFICIENCY		88.92
11	11	1	3	1.000000	9	0.859223
				BIAS CORR		
				VAR COEFF		0.021315
				EFFICIENCY		69.57
11	10	10	1	0.324168	1	0.021378
			2	0.098785	2	0.035152
			3	0.080645	3	0.046917
			4	0.071904	4	0.059091
			5	0.066612	5	0.069410
			6	0.063769	6	0.082957
			7	0.061614	7	0.094625
			8	0.060572	8	0.110101
			9	0.059917	9	0.127209
			10	0.112013	10	0.327109
				BIAS CORR		
				VAR COEFF		0.016321

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				98.79		90.86
11	10	9		EFFICIENCY		
				EFF(M/N)		
			1	0.324607	2	0.049580
			2	0.098693	3	0.046891
			3	0.081150	4	0.059109
			4	0.071495	5	0.069387
			5	0.099130	6	0.083027
			7	0.092403	7	0.094606
			8	0.060179	8	0.110164
			9	0.060336	9	0.127239
			10	0.112004	10	0.327219
				BIAS CORR		
				0.701142		
11	10	8		VAR COEFF		
				0.011769		
				EFFICIENCY		0.016326
				99.88		99.97
			1	0.324917	2	0.069465
			2	0.099372	4	0.084824
			3	0.080025	5	0.069206
			4	0.104961	6	0.083454
			6	0.129507	7	0.094149
			8	0.089369	8	0.110632
			9	0.059350	9	0.127111
			10	0.112499	10	0.327454
				BIAS CORR		
				0.700857		
11	10	7		VAR COEFF		
				0.011784		
				EFFICIENCY		0.016336
				99.74		99.91
			1	0.325637	2	0.069511
			2	0.098710	4	0.118470
			3	0.114488	6	0.118286
			5	0.136681	7	0.093580
			7	0.126070	8	0.111486
			9	0.086295	9	0.126718
			10	0.112121	10	0.327952
				BIAS CORR		
				0.700434		
11	10	6		VAR COEFF		
				0.011805		
				EFFICIENCY		0.016353
11	10	5		99.57		99.80
			1	0.326291	3	0.112996
			2	0.133818	5	0.142238

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			4	0.149407	7	0.135658
			6	0.130069	8	0.108936
			8	0.125146	9	0.128629
			10	0.135269	10	0.328047
			BIAS CORR	0.699890		
			VAR COEFF	0.011837		0.016384
			EFFICIENCY	99.30		99.61
11	10		1	0.364559	3	0.113360
			3	0.174402	5	0.142921
			5	0.170933	7	0.196423
			8	0.153771	9	0.175574
			10	0.136335	10	0.329026
			BIAS CORR	0.700590		
			VAR COEFF	0.011923		0.016441
			EFFICIENCY	98.59		99.27
11	10	4	1	0.368853	4	0.202566
			3	0.238744	7	0.233255
			7	0.233830	9	0.176172
			10	0.158572	10	0.331383
			BIAS CORR	0.697844		
			VAR COEFF	0.012072		0.016542
			EFFICIENCY	97.37		98.66
11	10		1	0.411127	5	0.271230
			4	0.319336	8	0.273321
			9	0.269537	10	0.384115
			BIAS CORR	0.673869		
			VAR COEFF	0.012482		0.016737
			EFFICIENCY	94.17		97.51
11	10	7	1	0.524233	6	0.437492
			7	0.475767	10	0.476181
			BIAS CORR	0.633299		
			VAR COEFF	0.013619		0.017390
			EFFICIENCY	86.31		93.85
11	10	1	3	1.000000	9	0.859223
			BIAS CORR	0.594895		
			VAR COEFF	0.020041		0.021315



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				58.65		76.57
				EFFICIENCY		
11	9	9	1	0.329603	1	0.023803
			2	0.100307	2	0.038685
			3	0.082370	3	0.053392
			4	0.072204	4	0.062855
			5	0.068797	5	0.080639
			6	0.063697	6	0.088652
			7	0.063045	7	0.106552
			8	0.061009	8	0.120649
			9	0.158968	9	0.454836
				BIAS CORR		
				0.677955		
				VAR COEFF		0.018158
				0.011951		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		81.67
				97.17		
11	9	11	1	0.330042	2	0.054751
			2	0.100215	3	0.053366
			3	0.082874	4	0.062877
			4	0.071796	5	0.080617
			5	0.101278	6	0.088732
			7	0.093799	7	0.106536
			8	0.060616	8	0.120722
			9	0.159381	9	0.454993
				BIAS CORR		
				0.677665		
				VAR COEFF		0.018165
				0.011965		
				EFFICIENCY		99.96
				99.88		
11	9	7	1	0.330350	2	0.077388
			2	0.100916	4	0.092217
			3	0.081742	5	0.080421
			4	0.106346	6	0.089273
			6	0.131288	7	0.106026
			8	0.090485	8	0.121265
			9	0.158826	9	0.455127
				BIAS CORR		
				0.677260		
				VAR COEFF		0.018178
				0.011983		
				EFFICIENCY		99.89
				99.73		
11	9	5	1	0.331082	2	0.077455
			2	0.100233	4	0.131267

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			3	0.116355	6	0.129719
			5	0.138990	7	0.105385
			7	0.127711	8	0.122276
			9	0.185629	9	0.455239
			BIAS CORR	0.676926		
			VAR COEFF	0.012002		0.018200
			EFFICIENCY	99.57		99.77
11	9	1	1	0.332695	3	0.125288
			2	0.136438	5	0.158368
			4	0.183895	7	0.150458
			7	0.160503	8	0.119492
			9	0.186469	9	0.457385
			BIAS CORR	0.676787		
			VAR COEFF	0.012065		0.018232
			EFFICIENCY	99.06		99.59
11	9	2	1	0.371694	3	0.125728
			3	0.209718	5	0.159159
			6	0.205407	7	0.217148
			9	0.213181	9	0.509946
			BIAS CORR	0.677259		
			VAR COEFF	0.012160		0.018301
			EFFICIENCY	98.28		99.22
11	9	3	1	0.411127	4	0.224531
			4	0.319336	7	0.258872
			9	0.269537	9	0.513338
			BIAS CORR	0.673869		
			VAR COEFF	0.012482		0.018430
			EFFICIENCY	95.75		98.52
11	9	2	1	0.524233	6	0.387421
			7	0.475767	9	0.570742
			BIAS CORR	0.633299		
			VAR COEFF	0.013619		0.018857
			EFFICIENCY	87.75		96.29
11	9	1	3	1.000000	9	0.859223
			BIAS CORR	0.594895		
			VAR COEFF	0.020041		0.021315

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		85.19
11	8	3	1	0.336579	1	0.026593
			2	0.102796	2	0.044691
			3	0.082870	3	0.056199
			4	0.075839	4	0.077451
			5	0.067658	5	0.082652
			6	0.066611	6	0.104825
			7	0.063231	7	0.116435
			8	0.204416	8	0.584692
				BIAS CORR		
				VAR COEFF		0.020467
				EFFICIENCY		100.00
				EFF(M/N)		72.45
11	8	7	1	0.336965	2	0.062643
			2	0.103160	3	0.056170
			3	0.082374	4	0.077430
			4	0.076726	5	0.082628
			5	0.067065	6	0.104921
			6	0.100258	7	0.116421
			8	0.233451	8	0.584952
				BIAS CORR		
				VAR COEFF		0.020476
				EFFICIENCY		99.96
11	8	6	1	0.337361	2	0.086472
			2	0.103400	4	0.108367
			3	0.082242	5	0.082423
			4	0.109425	6	0.105443
			6	0.133729	7	0.115987
			8	0.233842	8	0.585667
				BIAS CORR		
				VAR COEFF		0.020490
				EFFICIENCY		99.89
11	8	5	1	0.338149	2	0.086544
			2	0.138590	4	0.148394
			4	0.154736	6	0.146951
			6	0.134058	7	0.115233
			8	0.234467	8	0.586820

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
11	8	4		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			1	0.652137	2	0.086662
			3	0.012269	4	0.149011
			5	99.49	6	0.207951
			8	0.264914	8	0.640818
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	4	3	1	0.652484		0.020567
			4	0.012361		99.52
			8	98.75		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			1	0.413823	3	0.177972
			4	0.286590	6	0.249904
			8	0.299587	8	0.643350
				BIAS CORR		
11	3	2	1	0.654003		0.020659
			4	0.012568		99.67
			8	97.13		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			1	0.524233	5	0.336445
			7	0.475767	8	0.700615
				BIAS CORR		
				VAR COEFF		
11	8	1	1	0.633299		0.020942
			3	0.01319		97.74
			8	89.63		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			3	1.000000	8	0.949517
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	7	7	1	0.020041		0.022568
			2	60.91		90.69
			3			
			4			
			5			
			6			
			7			
				BIAS CORR		
				VAR COEFF		
				EFF(M/N)		
11	7	7	1	0.345692	1	0.030770
			2	0.104741	2	0.048627
			3	0.087012	3	0.070534
			4	0.074615	4	0.078358
			5	0.072043	5	0.102924
			6	0.066471	6	0.113978
			7	0.249425	7	0.722384
				BIAS CORR		
				VAR COEFF		
				EFF(M/N)		
11	7	7		0.623934		0.023454
				0.012534		100.00
				100.00		63.23
				92.65		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
11	7	6	1	0.346167	2	0.059403
			2	0.104652	3	0.070578
			3	0.087539	4	0.078392
			4	0.074199	5	0.102908
			5	0.105939	6	0.114093
			7	0.281504	7	0.722680
			BIAS CORR		0.623566	
			VAR COEFF		0.012550	
			EFFICIENCY		99.87	
					0.023466	
11	7	5	1	0.346742	2	0.099335
			2	0.104732	4	0.117177
			3	0.121847	5	0.102681
			5	0.144607	6	0.114763
			7	0.282072	7	0.722939
			BIAS CORR		0.623674	
			VAR COEFF		0.012570	
			EFFICIENCY		99.71	
					0.023458	
					99.86	
11	7	4	1	0.348495	2	0.099455
			2	0.142697	4	0.167087
			4	0.191945	6	0.166521
			7	0.316863	7	0.723613
			BIAS CORR		0.623285	
			VAR COEFF		0.012638	
			EFFICIENCY		99.17	
					0.023526	
					99.70	
11	7	3	1	0.390737	3	0.161237
			3	0.252397	5	0.201789
			7	0.356865	7	0.780858
			BIAS CORR		0.624333	
			VAR COEFF		0.012793	
			EFFICIENCY		97.98	
					0.023575	
					99.49	
11	7	2	1	0.524233	4	0.286911
			7	0.475767	7	0.838503
			BIAS CORR		0.633299	
			VAR COEFF		0.013619	
			EFFICIENCY		92.03	
					0.023784	
					98.61	
11	7	1	3	1.000000	7	1.045521

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.594895		
				0.020041		0.024907
				62.34		94.17
11	6	2	1	0.357090	1	0.035235
			2	0.109082	2	0.059612
			3	0.087639	3	0.075037
			4	0.079446	4	0.099364
			5	0.072249	5	0.113240
			6	0.294493	6	0.874255
				BIAS CORR		
				0.592827		
				VAR COEFF		0.027465
				0.012956		100.00
				EFFICIENCY		100.00
				100.00		53.99
				EFF(M/N)		89.63
11	6	3	1	0.357553	2	0.083409
			2	0.109352	3	0.075010
			3	0.087506	4	0.099413
			4	0.114682	5	0.113226
			6	0.330907	6	0.874744
				BIAS CORR		
				0.592619		
				VAR COEFF		0.027480
				0.012974		99.95
				EFFICIENCY		99.86
11	6	4	1	0.358449	2	0.115257
			2	0.146817	4	0.140683
			4	0.162917	5	0.112989
			6	0.331817	6	0.875747
				BIAS CORR		
				0.593127		
				VAR COEFF		0.027506
				0.013009		99.85
				EFFICIENCY		99.59
11	6	5	1	0.400917	2	0.115406
			3	0.224959	4	0.195633
			6	0.374124	6	0.933487
				BIAS CORR		
				0.594366		
				VAR COEFF		0.027551
				0.013118		99.69
				EFFICIENCY		98.76
11	6	6	1	0.503620	3	0.236074
			6	0.496380	6	0.991857

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	6	1	3	1.000000	6	1.153912
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	2	1	0.372482	1	0.042751
			2	0.112797	2	0.068596
			3	0.092456	3	0.094147
			4	0.081071	4	0.113739
			5	0.341194	5	1.049460
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
11	5	4	1	0.373168	2	0.097478
			2	0.112903	3	0.094127
			3	0.129960	4	0.113808
			5	0.383969	5	1.050078
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	2	1	0.415959	2	0.137475
			3	0.197890	4	0.165632
			5	0.386152	5	1.051128
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	2	1	0.488468	3	0.222992
			5	0.511532	5	1.113216
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	1	3	1.000000	5	1.283478

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.594895		
				0.020041		0.033828
				67.42		97.94
11	4	4	1	0.393187	1	0.052658
			2	0.119173	2	0.086443
			3	0.096508	3	0.114318
			4	0.391133	4	1.263733
				BIAS CORR		
				0.518872		
				VAR COEFF		0.041738
				0.014275		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		35.53
				81.35		
11	4	4	1	0.394283	2	0.122037
			2	0.160534	3	0.114308
			4	0.445184	4	1.264653
				BIAS CORR		
				0.519210		
				VAR COEFF		0.041771
				0.014317		
				EFFICIENCY		99.92
				99.70		
11	4	2	1	0.477975	2	0.170650
			4	0.522025	4	1.323999
				BIAS CORR		
				0.522780		
				VAR COEFF		0.041830
				0.014538		
				EFFICIENCY		99.78
				98.19		
11	4	1	3	1.000000	4	1.449015
				BIAS CORR		
				0.594895		
				VAR COEFF		0.042196
				0.020041		
				EFFICIENCY		98.91
				71.23		
11	3	2	1	0.423605	1	0.069540
			2	0.127565	2	0.112896
			3	0.448830	3	1.549115
				BIAS CORR		
				0.472952		
				VAR COEFF		0.056356
				0.015393		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		26.31
				75.44		
11	3	2	1	0.472312	2	0.159937
			3	0.527688	3	1.550481



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.474511		
				0.015497		0.056414
				99.33		99.90
11	3	1	3	1.000000	3	1.680969
				BIAS CORR		
				0.594895		
				VAR COEFF		0.056628
				0.020041		99.52
				EFFICIENCY		
				76.81		
11	2	2	1	0.473344	1	0.101514
			2	0.526656	2	1.989230
				BIAS CORR		
				0.416559		
				VAR COEFF		0.086533
				0.017241		100.00
				EFFICIENCY		100.00
				100.00		17.14
				EFF(M/N)		
				67.35		
11	2	1	2	1.000000	2	2.060345
				BIAS CORR		
				0.485356		
				VAR COEFF		0.086656
				0.020414		99.86
				EFFICIENCY		
				84.46		
11	1	1	1	1.000000	1	2.941063
				BIAS CORR		
				0.340013		
				VAR COEFF		0.183105
				0.021169		100.00
				EFFICIENCY		8.10
				100.00		
				EFF(M/N)		
				54.86		
12	12	12	1	0.311474	1	0.016932
			2	0.093284	2	0.027701
			3	0.075629	3	0.037054
			4	0.066753	4	0.045940
			5	0.061946	5	0.054705
			6	0.058401	6	0.063803
			7	0.056801	7	0.073312
			8	0.055156	8	0.083879
			9	0.054654	9	0.095846
			10	0.054317	10	0.110515
			11	0.054680	11	0.130548
			12	0.056906	12	0.179996
				BIAS CORR		
				0.718432		
				VAR COEFF		0.013574
				0.010597		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.311676	2	0.039186
			2	0.093870	3	0.037028
			3	0.074421	4	0.045963
			4	0.068595	5	0.054654
			5	0.060475	6	0.063900
			6	0.088232	7	0.073229
			8	0.082447	8	0.083973
			9	0.053781	9	0.095826
			10	0.055063	10	0.110555
			11	0.054441	11	0.130575
			12	0.056998	12	0.180038
				BIAS CORR		
				VAP COEFF		0.013577
				EFFICIENCY		99.98
12	12	10	1	0.312223	2	0.054752
			2	0.092596	4	0.066553
			3	0.077960	5	0.054313
			4	0.063575	6	0.064635
			5	0.093130	7	0.072169
			7	0.114513	8	0.085115
			9	0.080791	9	0.095105
			10	0.053001	10	0.110922
			11	0.055281	11	0.130550
			12	0.056930	12	0.180120
				BIAS CORR		
				VAR COEFF		0.013582
				EFFICIENCY		99.94
12	12	9	1	0.312243	2	0.054772
			2	0.094596	4	0.092559
			3	0.073072	6	0.092652
			4	0.098781	7	0.070806
			6	0.118985	8	0.087225
			8	0.112881	9	0.093245
			10	0.078164	10	0.112049
			11	0.054122	11	0.130319
			12	0.057156	12	0.180273

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.717431		
				0.010630		0.013591
				99.69		99.87
12	12	2	1	0.313157	2	0.054706
			2	0.092581	4	0.093095
			3	0.107211	6	0.128929
			5	0.126991	8	0.121214
			7	0.114959	9	0.092298
			9	0.112976	10	0.112994
			11	0.075110	11	0.130122
			12	0.057016	12	0.180527
				BIAS CORR		
				0.716646		
				VAR COEFF		0.013607
				0.010648		99.75
				EFFICIENCY		
				99.52		
12	12	7	1	0.313814	3	0.089012
			2	0.125911	5	0.111172
			4	0.139709	7	0.149386
			6	0.119689	9	0.136129
			8	0.113648	10	0.108511
			10	0.115169	11	0.131878
			12	0.072061	12	0.180615
				BIAS CORR		
				0.714511		
				VAR COEFF		0.013630
				0.010686		99.59
				EFFICIENCY		
				99.17		
12	12	6	1	0.316025	3	0.111158
			2	0.126713	6	0.156825
			4	0.168965	8	0.172575
			7	0.177732	10	0.152764
			10	0.138018	11	0.130819
			12	0.072547	12	0.181454
				BIAS CORR		
				0.712587		
				VAR COEFF		0.013679
				0.010751		99.23
				EFFICIENCY		
				98.57		
12	12	5	1	0.352963	4	0.157246
			3	0.193351	7	0.180892
			6	0.219934	9	0.201966
			10	0.160636	11	0.174264

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)  
SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			12	0.073116	12	0.182358
			BIAS CORR	0.712443		
			VAR COEFF	0.010854		0.013766
			EFFICIENCY	97.63		98.60
12	12	4	1	0.358446	5	0.254099
			3	0.225203	9	0.269978
			7	0.253703	11	0.175719
			11	0.162643	12	0.184349
			BIAS CORR	0.692503		
			VAR COEFF	0.011037		0.013928
			EFFICIENCY	96.02		97.46
12	12	2	1	0.423174	6	0.328712
			5	0.332081	10	0.319222
			10	0.244745	12	0.225565
			BIAS CORR	0.677921		
			VAR COEFF	0.011424		0.014261
			EFFICIENCY	92.76		95.18
12	12	2	1	0.507796	8	0.545313
			7	0.492204	12	0.227295
			BIAS CORR	0.613241		
			VAR COEFF	0.012520		0.015388
			EFFICIENCY	84.64		88.21
12	12	1	4	1.000000	10	0.839990
			BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.019538
			EFFICIENCY	57.36		69.47
12	11	11	1	0.314847	1	0.018480
			2	0.094263	2	0.030125
			3	0.076539	3	0.040749
			4	0.067207	4	0.049217
			5	0.063039	5	0.061139
			6	0.058456	6	0.067656
			7	0.057847	7	0.081478
			8	0.055363	8	0.090203
			9	0.055243	9	0.104586
			10	0.054565	10	0.119442

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
12	11	10	11	0.102632	11	0.304193
			BIAS CORR	0.699477		
			VAR COEFF	0.010712		0.014813
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.93		91.64
			1	0.31121	2	0.042660
			2	0.093461	3	0.040721
			3	0.077426	4	0.049242
			4	0.066277	5	0.061085
			5	0.092582	6	0.067762
			7	0.087075	7	0.081389
12	11	9	8	0.053459	8	0.090308
			9	0.056906	9	0.104566
			10	0.053520	10	0.119488
			11	0.103043	11	0.304266
			BIAS CORR	0.699346		
			VAR COEFF	0.010722		0.014816
			EFFICIENCY	99.91		99.97
			1	0.315598	2	0.059781
			2	0.093574	4	0.071884
			3	0.078877	5	0.060713
			4	0.064019	6	0.068572
			5	0.094257	7	0.080227
12	11	8	7	0.115496	8	0.091567
			9	0.081479	9	0.103778
			10	0.053247	10	0.119847
			11	0.103259	11	0.304325
			BIAS CORR	0.698878		
			VAR COEFF	0.010792		0.014823
			EFFICIENCY	99.81		99.93
			1	0.315642	2	0.059809
			2	0.093601	4	0.100968
			3	0.073467	5	0.049894
			4	0.044748	7	0.078711
			6	0.120134	8	0.043431
12	11	0	8	0.113423	9	0.101706
			10	0.078676	10	0.121165
			11	0.102279	11	0.304232

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.698379		
			VAR COEFF	0.010746		0.014834
			EFFICIENCY	99.68		99.85
12	11	7	1	0.316542	3	0.096820
			2	0.093560	5	0.120514
			3	0.108333	7	0.117073
			5	0.128355	8	0.086154
			7	0.116147	9	0.108617
			9	0.113812	10	0.117637
			11	0.123249	11	0.305550
			BIAS CORR	0.697646		
			VAR COEFF	0.010763		0.014852
			EFFICIENCY	99.52		99.74
12	11	6	1	0.317697	3	0.096973
			2	0.127895	5	0.121327
			4	0.140420	7	0.162873
			6	0.151911	9	0.147933
			8	0.137950	10	0.117338
			11	0.124227	11	0.306260
			BIAS CORR	0.696887		
			VAR COEFF	0.010813		0.014878
			EFFICIENCY	99.06		99.56
12	11	5	1	0.353789	3	0.121481
			3	0.195097	6	0.170699
			6	0.186584	8	0.187833
			9	0.139785	10	0.165677
			11	0.124746	11	0.306020
			BIAS CORR	0.698979		
			VAR COEFF	0.010889		0.014934
			EFFICIENCY	98.41		99.15
12	11	4	1	0.358446	4	0.171374
			3	0.225203	7	0.197562
			7	0.253708	9	0.219313
			11	0.162643	11	0.353478
			BIAS CORR	0.692903		
			VAR COEFF	0.011037		0.015040
			EFFICIENCY	97.06		98.49

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	0.423174	5	0.277614
			5	0.332081	9	0.293806
			10	0.244745	11	0.357753
		BIAS CORR		0.677921		
				0.011424		0.015231
				93.76		97.25
12	11	2	1	0.507796	7	0.451974
			7	0.492204	11	0.444781
				0.613241		
		BIAS CORR		0.012520		0.015848
				85.56		93.47
12	11	1	4	1.000000	10	0.839990
				0.662398		
				0.018476		0.019538
		BIAS CORR		57.98		75.81
12	10	10	1	0.319434	1	0.020249
			2	0.095822	2	0.033737
			3	0.076921	3	0.042486
			4	0.069854	4	0.059536
			5	0.061202	5	0.058697
			6	0.062071	6	0.083367
			7	0.056463	7	0.082536
			8	0.057146	8	0.102447
			9	0.055299	9	0.112736
			10	0.145710	10	0.422105
		BIAS CORR		0.678300		
				0.110869		0.016311
				100.00		100.00
		EFFICIENCY		97.50		83.27
12	10	9	1	0.319633	2	0.047474
			2	0.096403	3	0.042457
			3	0.075721	4	0.059567
			4	0.071682	5	0.058617
			5	0.059824	6	0.063458
			6	0.091721	7	0.087440
			8	0.084274	8	0.107964

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
12	10	9	9	0.054432	9	0.112716
			10	0.146310	10	0.422236
			BIAS CORR	0.678027		
			VAR COEFF	0.010879		0.016315
			EFFICIENCY	99.91		99.97
			1	0.319894	2	0.065326
			2	0.096694	4	0.083181
			3	0.075397	5	0.058249
			4	0.100571	6	0.084335
			6	0.121643	7	0.081228
12	10	9	8	0.085885	8	0.103879
			9	0.052385	9	0.111896
			10	0.147332	10	0.422723
			BIAS CORR	0.678076		
			VAR COEFF	0.010890		0.016322
			EFFICIENCY	99.81		99.93
			1	0.320202	2	0.065351
			2	0.097132	4	0.111076
			3	0.074362	6	0.114396
			4	0.101566	7	0.079773
12	10	7	6	0.122150	8	0.106144
			8	0.115067	9	0.109906
			10	0.169520	10	0.423651
			BIAS CORR	0.677278		
			VAR COEFF	0.010902		0.016333
			EFFICIENCY	99.70		99.86
			1	0.320817	2	0.065285
			2	0.128659	4	0.111695
			4	0.142789	6	0.155277
			6	0.122338	8	0.144458
12	10	6	8	0.115651	9	0.108855
			10	0.169747	10	0.424985
			BIAS CORR	0.677978		
			VAR COEFF	0.010925		0.016353
			EFFICIENCY	99.49		99.74
			1	0.323130	3	0.107332
			2	0.129499	5	0.132285



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			4	0.172838	7	0.178292
			7	0.181097	9	0.162243
			10	0.193437	10	0.421967
			BIAS CORR	0.675759		
			VAR COEFF	0.010993		0.016398
			EFFICIENCY	98.87		99.47
12	10	4	1	0.360969	4	0.154934
			3	0.197548	6	0.156340
			6	0.224633	8	0.206157
			10	0.216850	10	0.473562
			BIAS CORR	0.675341		
			VAR COEFF	0.011101		0.016454
			EFFICIENCY	97.91		99.13
12	10	3	1	0.423174	4	0.231122
			5	0.332081	8	0.280872
			10	0.244745	10	0.477403
			BIAS CORR	0.677921		
			VAR COEFF	0.011424		0.016602
			EFFICIENCY	95.14		98.24
12	10	2	1	0.507796	6	0.390186
			7	0.492204	10	0.569229
			BIAS CORR	0.613241		
			VAR COEFF	0.012520		0.016909
			EFFICIENCY	86.81		96.01
12	10	1	4	1.000000	10	0.839990
			BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.019538
			EFFICIENCY	58.83		83.48
12	9	9	1	0.325410	1	0.022788
			2	0.096896	2	0.035343
			3	0.080685	3	0.054699
			4	0.066077	4	0.050215
			5	0.069132	5	0.086582
			6	0.056924	6	0.072852
			7	0.061141	7	0.103357
			8	0.056197	8	0.107660

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
12	9	9	9	0.187538	9	0.540779
			BIAS CORR	0.655188		
			VAR COEFF	0.011069		0.018150
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.73		74.79
			1	0.325767	2	0.050803
			2	0.096602	3	0.054670
			3	0.081534	4	0.050246
			4	0.065198	5	0.086525
			5	0.097879	6	0.072985
12	9	7	6	0.089596	7	0.103250
			7	0.054840	8	0.107794
			8	0.188584	9	0.540906
			9	0.655079		
			BIAS CORR	0.011079		0.018156
			VAR COEFF	99.91		99.97
			EFFICIENCY			
			1	0.326155	2	0.050728
			2	0.096212	3	0.077606
			3	0.083007	5	0.113277
12	9	6	4	0.062911	6	0.072087
			5	0.099577	7	0.104968
			6	0.118686	8	0.105783
			7	0.213451	9	0.542217
			8	0.654575		
			9	0.011090		0.018164
			BIAS CORR	99.82		99.92
			VAR COEFF			
			EFFICIENCY			
			1	0.326555	2	0.050358
12	9	5	2	0.096226	3	0.078117
			3	0.111791	5	0.149081
			5	0.132570	7	0.140994
			7	0.118990	8	0.104141
			9	0.213868	9	0.543772
			BIAS CORR	0.654843		
			VAR COEFF	0.011103		0.018180
			EFFICIENCY	99.70		99.84
			1	0.362492	3	0.117665
			3	0.169888	5	0.149097

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			5	0.133031	7	0.141702
			7	0.119770	8	0.103403
			9	0.214860	9	0.544701
			BIAS CORR	0.656983		
			VAR COEFF	0.011157		0.018199
			EFFICIENCY	99.21		99.73
12	9	4	1	0.365022	3	0.117890
			3	0.201436	5	0.150123
			6	0.191668	7	0.196735
			9	0.241873	9	0.592426
			BIAS CORR	0.655673		
			VAR COEFF	0.011233		0.018237
			EFFICIENCY	98.55		99.52
12	9	3	1	0.401464	4	0.207330
			4	0.299073	7	0.239504
			9	0.299463	9	0.595448
			BIAS CORR	0.654527		
			VAR COEFF	0.011479		0.018356
			EFFICIENCY	96.43		98.88
12	9	2	1	0.507796	5	0.338171
			7	0.492204	9	0.689980
			BIAS CORR	0.613241		
			VAR COEFF	0.012520		0.018625
			EFFICIENCY	88.41		97.45
12	9	1	4	1.000000	9	0.922596
			BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.020337
			EFFICIENCY	59.91		89.25
12	8	6	1	0.332583	1	0.024926
			2	0.100536	2	0.044397
			3	0.077801	3	0.046656
			4	0.076019	4	0.083423
			5	0.060805	5	0.066136
			6	0.065219	6	0.104370
			7	0.058691	7	0.104295
			8	0.228348	8	0.664448

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.630054		
				0.011322		0.020461
				100.00		100.00
				93.60		66.34
12	8	7	1	0.332802	2	0.061311
			2	0.101139	3	0.046622
			3	0.076575	4	0.083465
			4	0.077886	5	0.066068
			5	0.055337	6	0.104523
			6	0.096014	7	0.104184
			8	0.256247	8	0.664737
				BIAS CORR		
				0.629716		
				VAR COEFF		0.020468
				0.011332		99.97
				EFFICIENCY		
				99.90		
12	8	6	1	0.333061	2	0.080921
			2	0.101414	4	0.109374
			3	0.076295	5	0.065690
			4	0.106505	6	0.105420
			6	0.125883	7	0.102879
			8	0.256842	8	0.665818
				BIAS CORR		
				0.629752		
				VAR COEFF		0.020477
				0.011343		99.92
				EFFICIENCY		
				99.81		
12	8	5	1	0.333710	2	0.080962
			2	0.133766	4	0.140832
			4	0.148808	6	0.139286
			6	0.126081	7	0.101295
			8	0.257436	8	0.667412
				BIAS CORR		
				0.630406		
				VAR COEFF		0.020490
				0.011367		99.86
				EFFICIENCY		
				99.60		
12	8	4	1	0.372432	2	0.080909
			3	0.174041	4	0.141659
			5	0.166077	6	0.191262
			8	0.287450	8	0.716243
				BIAS CORR		
				0.630808		
				VAR COEFF		0.020522
				0.011450		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.80
						99.70
12	8	3	1	0.405195	4	0.194366
			4	0.272673	6	0.191641
			8	0.322132	8	0.718900
				BIAS CORR		
				0.633136		
				VAR COEFF		0.020597
				EFFICIENCY		99.34
12	8	2	1	0.507796	4	0.288321
			7	0.492204	8	0.815785
				BIAS CORR		
				0.613241		
				VAR COEFF		0.020821
				EFFICIENCY		98.27
12	8	1	4	1.000000	8	1.008366
				BIAS CORR		
				0.662398		
				VAR COEFF		0.022007
				EFFICIENCY		92.97
12	7	7	1	0.342205	1	0.029627
			2	0.101142	2	0.043728
			3	0.085740	3	0.072168
			4	0.068955	4	0.065796
			5	0.070633	5	0.102162
			6	0.061974	6	0.103173
			7	0.269347	7	0.797594
				BIAS CORR		
				0.602648		
				VAR COEFF		0.023449
				EFFICIENCY		100.00
				EFF(M/N)		57.89
12	7	6	1	0.342624	2	0.063832
			2	0.100843	3	0.072140
			3	0.086633	4	0.065837
			4	0.068071	5	0.102100
			5	0.101890	6	0.103354
			7	0.299940	7	0.797821
				BIAS CORR		
				0.602428		
				VAR COEFF		0.023459
				EFFICIENCY		99.96

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
12	7	3	1	0.343091	2	0.063765
			2	0.100868	3	0.102193
			3	0.117789	5	0.137110
			5	0.137600	6	0.102277
			7	0.300652	7	0.799174
			BIAS CORR	0.602607		
			VAR COEFF	0.011665		0.623474
			EFFICIENCY	99.77		99.90
12	7	4	1	0.344692	3	0.152313
			2	0.138134	5	0.137553
			4	0.182288	6	0.101503
			7	0.334886	7	0.800783
			BIAS CORR	0.602360		
			VAR COEFF	0.011724		0.023505
			EFFICIENCY	99.27		99.76
12	7	5	1	0.384487	3	0.152685
			3	0.241265	5	0.188016
			7	0.374248	7	0.851510
			BIAS CORR	0.603846		
			VAR COEFF	0.011843		0.023535
			EFFICIENCY	98.27		99.63
12	7	2	1	0.507796	4	0.266628
			7	0.492204	7	0.907690
			BIAS CORR	0.613241		
			VAR COEFF	0.012520		0.023714
			EFFICIENCY	92.96		98.88
12	7	1	4	1.000000	7	1.102387
			BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.024560
			EFFICIENCY	62.99		95.48
12	5	5	1	0.353619	1	0.033097
			2	0.106674	2	0.057975
			3	0.083647	3	0.067519
			4	0.077159	4	0.096522
			5	0.068452	5	0.104109

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			6	0.310449	6	0.946357
			BIAS CORR	0.572531		
			VAR COEFF	0.012042		0.027461
			EFFICIENCY	100.00		100.00
			EFF(M/N)	88.00		49.43
12	6	5	1	0.353973	2	0.080441
			2	0.107006	3	0.067487
			3	0.093343	4	0.096478
			4	0.110185	5	0.104040
			6	0.345493	6	0.946827
			BIAS CORR	0.572419		
			VAR COEFF	0.012057		0.027473
			EFFICIENCY	99.88		99.96
12	6	4	1	0.354753	2	0.108852
			2	0.142376	4	0.134065
			4	0.156421	5	0.103577
			6	0.346451	6	0.947854
			BIAS CORR	0.572940		
			VAR COEFF	0.012085		0.027492
			EFFICIENCY	99.65		99.89
12	6	3	1	0.395862	2	0.108970
			3	0.216213	4	0.183723
			6	0.387924	6	1.001450
			BIAS CORR	0.574222		
			VAR COEFF	0.012179		0.027525
			EFFICIENCY	98.88		99.77
12	6	2	1	0.491605	3	0.220494
			6	0.508395	6	1.057713
			BIAS CORR	0.581426		
			VAR COEFF	0.012658		0.027654
			EFFICIENCY	95.14		99.30
12	6	1	4	1.000000	6	1.210489
			BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.028256
			EFFICIENCY	65.18		97.18

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
12	5	"	1	0.369351	1	0.040764
			2	0.109705	2	0.064151
			3	0.089674	3	0.089775
			4	0.077596	4	0.106066
			5	0.393674	5	1.119873
			BIAS CORR	0.539044		
			VAR COEFF	0.012570		0.033128
12	5	"		EFFICIENCY		100.00
				EFF (M/N)		40.97
			1	0.369956	2	0.091827
			2	0.109758	3	0.089744
			3	0.125211	4	0.108141
			4	0.395079	5	1.120469
			BIAS CORR	0.539077		
12	5	3		VAR COEFF		0.033147
				EFFICIENCY		99.94
			1	0.411184	2	0.129641
			3	0.191603	4	0.156025
			5	0.397214	5	1.121259
			BIAS CORR	0.340831		
			VAR COEFF	0.012661		0.033180
12	5	"		EFFICIENCY		99.84
			1	0.449634	3	0.210489
			5	0.520344	5	1.179648
			BIAS CORR	0.545474		
			VAR COEFF	0.012970		0.033249
				EFFICIENCY		99.64
12	5	1	4	1.000000	5	1.341244
			BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.033687
				EFFICIENCY		98.34
12	4	"	1	0.390131	1	0.049882
			2	0.116203	2	0.081912
			3	0.093343	3	0.107555
			4	0.400241	4	1.334131
			BIAS CORR	0.501074		



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.96

n	m	L	I	LOCATION	I	SCALE
11	A	1	VAN COEFF	0.013791		0.041733
			EFFICIENCY	100.00		100.00
			EFF(M/H)	79.73		79.73
12	A	2	1	0.391117	2	0.110793
			2	0.199906	3	0.107933
			3	0.437993	4	1.334943
			BIAS CORR	0.901436		
13	A	3	VAN COEFF	0.013376		0.041743
			EFFICIENCY	79.73		79.73
14	A	4	1	0.471903	2	0.161174
			2	0.379667	3	1.399010
			3	0.808090		
			BIAS CORR	0.913910		0.041810
15	A	5	EFFICIENCY	79.87		79.87
17	A	7	1	1.000000	4	1.409667
			2	0.647390		
			3	0.610076		0.047178
			EFFICIENCY	71.93		71.93
17	B	7	1	0.470441	1	0.069461
			2	0.174001	2	0.106717
			3	0.466704	3	1.671467
			BIAS CORR	0.906783		
17	C	7	VAN COEFF	0.013387		0.041837
			EFFICIENCY	100.00		100.00
			EFF(M/H)	79.87		79.87
17	D	7	1	0.467191	2	0.191047
			2	0.387707	3	1.621130
			3	0.460746		
			BIAS CORR	0.910001		0.044007
17	E	7	EFFICIENCY	79.87		79.87
17	F	7	1	1.000000	4	1.741040
			2	0.617394		
			3	0.610001		0.046007
			EFFICIENCY	71.93		71.93

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
11	2	2	1	0.470423	1	0.096246
			2	0.924977	2	7.064444
			BIAS CORR		0.407243	
			VAR COEFF		0.015074	
			EFFICIENCY		100.00	
			EFF(M/N)		69.43	
11	2	1	2	1.000000	2	7.136440
			BIAS CORR		0.467448	
			VAR COEFF		0.018471	
			EFFICIENCY		94.73	
11	1	1	1	1.000000	1	9.049277
			BIAS CORR		0.378383	
			VAR COEFF		0.014743	
			EFFICIENCY		100.00	
11	13	13	1	0.303733	1	0.014411
			2	0.044040	2	0.074314
			3	0.077100	3	0.037407
			4	0.043170	4	0.040744
			5	0.016837	5	0.047614
			6	0.004001	6	0.008104
			7	0.003404	7	0.043174
			8	0.001074	8	0.071054
			9	0.000702	9	0.001001
			10	0.044770	10	0.071701
			11	0.000000	11	0.104444
			12	0.040324	12	0.123134
			13	0.007447	13	0.160302
			BIAS CORR		0.714917	
			VAR COEFF		0.009747	
			EFFICIENCY		100.00	
			EFF(M/N)		100.00	
11	13	12	1	0.304141	2	0.034474
			2	0.003407	3	0.037404
			3	0.074714	4	0.040104
			4	0.007772	5	0.047603
			5	0.000024	6	0.033244

TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION		I	SCALE	
13	13	11	6	0.050049		7	0.062464	
			7	0.081987		8	0.071774	
			8	0.076147		9	0.080867	
			10	0.047971		10	0.041801	
			11	0.051694		11	0.104459	
			12	0.047007		12	0.173166	
			13	0.052956		13	0.168412	
			BIAS CORR					
			VAR CORR					
			EFFICIENCY					
							0.012916	
							99.98	
			1	0.304465		7	0.047971	
			2	0.087887		8	0.080867	
			3	0.071747		9	0.044434	
			4	0.084303		6	0.086997	
			5	0.070845		7	0.080447	
			7	0.113897		8	0.076767	
			8	0.074704		9	0.078744	
			10	0.047073		10	0.048443	
			11	0.044140		11	0.104337	
			12	0.044117		12	0.173354	
			13	0.057670		13	0.168448	
			BIAS CORR					
			VAR CORR					
			EFFICIENCY				0.012977	
							99.95	
13	13	10	1	0.303966		7	0.047971	
			2	0.047041		8	0.080767	
			3	0.080903		6	0.087047	
			4	0.046144		7	0.087037	
			5	0.111364		8	0.080193	
			6	0.103447		9	0.077014	
			10	0.077387		10	0.048777	
			11	0.044473		11	0.107093	
			12	0.047041		12	0.174017	
			13	0.087144		13	0.168454	
			BIAS CORR					
			VAR CORR					
			EFFICIENCY				0.012976	
							99.91	
13	13	9	1	0.309078		7	0.047701	

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDEN STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

L	M	L	1	LOCATION	1	SCALE
			2	0.047346	4	0.001649
			3	0.102300	6	0.110977
			5	0.170721	8	0.104034
			7	0.106107	9	0.060074
			9	0.104698	10	0.101044
			11	0.072716	11	0.049962
			12	0.040717	12	0.124042
			13	0.097797	13	0.169472
		BIAS CORR		0.714301		
		VAN CUPP		0.009771		0.017934
		EFFICIENCY		99.71		99.54
11	12	13	1	0.104704	2	0.017056
			2	0.112714	3	0.047113
			4	0.132447	7	0.124070
			6	0.112104	9	0.112777
			8	0.104901	10	0.041141
			10	0.104067	11	0.110791
			12	0.060638	12	0.121771
			13	0.042439	13	0.164970
		BIAS CORR		0.713974		
		VAN CUPP		0.009791		0.017944
		EFFICIENCY		99.51		99.74
11	12	13	1	0.122126	2	0.113265
			3	0.142063	6	0.111931
			5	0.121401	8	0.105751
			7	0.107471	10	0.121677
			9	0.105356	11	0.049130
			11	0.109017	12	0.125619
			13	0.066781	13	0.160710
		BIAS CORR		0.713734		
		VAN CUPP		0.009820		0.017973
		EFFICIENCY		99.07		99.53
11	13	14	1	0.140304	4	0.132997
			3	0.199771	7	0.197170
			5	0.174114	9	0.163700
			7	0.150046	11	0.146106
			11	0.104903	12	0.124140
			13	0.066696	13	0.176077

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

L	M	I	I	LOCATION		SCALE	
				BIAS CORR	0.711896	BIAS CORR	0.012624
				VAN COEFF	0.009899	VAN COEFF	99.11
				EFFICIENCY	98.41	EFFICIENCY	
11	13	1	1	0.344233	4	0.167642	
			3	0.192762	8	0.202018	
			6	0.209847	10	0.193269	
			12	0.188654	12	0.163298	
			13	0.078497	13	0.176945	
				BIAS CORR	0.709628		
				VAN COEFF	0.009997		0.012677
				EFFICIENCY	97.91		98.94
1	13	4	1	0.314796	6	0.216775	
			4	0.286987	10	0.299521	
			8	0.279976	12	0.169596	
			12	0.169147	13	0.172470	
				BIAS CORR	0.694002		
				VAN COEFF	0.010153		0.012857
				EFFICIENCY	95.75		97.31
11	13	7	1	0.312686	7	0.347047	
			6	0.344103	11	0.304232	
			11	0.244217	13	0.211347	
				BIAS CORR	0.674574		
				VAN COEFF	0.010574		0.011179
				EFFICIENCY	92.87		94.75
11	13	2	1	0.311495	9	0.361071	
			4	0.308000	13	0.274543	
				BIAS CORR	0.672655		
				VAN COEFF	0.011877		0.015747
				EFFICIENCY	84.15		87.74
13	13	1	4	1.000002	11	0.973525	
				BIAS CORR	0.639264		
				VAN COEFF	0.017178		0.018046
				EFFICIENCY	96.48		94.14
11	12	12	1	0.306576	1	0.014117	
			2	0.090929	2	0.076561	

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION		I	SCALE	
11	11	11	3	0.072648		3	0.034336	
			4	0.064326		4	0.045264	
			5	0.058239		5	0.048270	
			6	0.056316		6	0.063974	
			7	0.052647		7	0.063929	
			8	0.052908		8	0.080887	
			9	0.050691		9	0.085194	
			10	0.050634		10	0.100196	
			11	0.050139		11	0.112348	
			12	0.054648		12	0.204573	
			BIAS CORR		0.677546			
			VAN COEFF		0.094836			0.013994
			EFFICIENCY		100.00			100.00
			EFFIM/11		47.04			42.77
13	13	13	1	0.306644		7	0.037648	
			2	0.071484		8	0.034788	
			3	0.064844		9	0.049332	
			4	0.068980		10	0.048144	
			5	0.064367		11	0.044179	
			6	0.064887		12	0.043107	
			7	0.071944		13	0.041177	
			8	0.067004		14	0.083044	
			9	0.064406		15	0.102744	
			10	0.047864		16	0.112336	
			11	0.049431		17	0.204646	
			BIAS CORR		0.677666			
			VAN COEFF		0.094844			0.013562
			EFFICIENCY		47.42			44.48
13	13	13	1	0.306787		7	0.051831	
			2	0.047633		8	0.064737	
			3	0.066401		9	0.047916	
			4	0.074884		10	0.063474	
			5	0.046884		11	0.061036	
			6	0.084006		12	0.084377	
			7	0.104404		13	0.082741	
			8	0.076031		14	0.102078	
			9	0.047044		15	0.111674	
			10	0.078784		16	0.204447	
			11	0.697074		17		
			BIAS CORR		0.697074			

TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		
				EFFICIENCY		
13	12	9	1	0.004850	2	0.013567
				99.86		99.95
			2	0.006894	4	0.051774
			3	0.092948	6	0.087339
			4	0.066419	8	0.041393
			5	0.047067	10	0.057988
			6	0.112918	12	0.089847
			7	0.104967		0.079968
			10	0.077934		0.106400
			11	0.044952		0.104411
			12	0.046307		0.289969
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.647209		0.013977
				0.009892		99.91
13	12	9	1	0.308014	2	0.091903
			2	0.088770	4	0.088731
			3	0.103418	6	0.120144
			4	0.121844	8	0.118197
			5	0.106929	10	0.071177
			6	0.109993	12	0.110972
			10	0.072437		0.107296
			11	0.048330		0.286470
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.646897		0.013981
				0.009866		99.84
13	12	9	1	0.307494	2	0.090929
			2	0.120846	4	0.089443
			3	0.134199	6	0.121263
			4	0.113274	8	0.161321
			5	0.109879	10	0.143978
			10	0.109141	12	0.106609
			11	0.113070		0.287046
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.646669		0.013976
				0.009884		99.72
13	12	9	1	0.310044	2	0.127870
			2	0.121680	4	0.121132

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
11	12	3	4	0.162123	8	0.157818
			7	0.163769	10	0.144193
			10	0.128241	11	0.106399
			12	0.114087	12	0.287703
			BIAS CORR	0.695174		
			VAN COEFF	0.009943		0.013675
			EFFICIENCY	94.93		99.52
11	12	4	1	0.344328	4	0.123110
			3	0.186800	6	0.123566
			6	0.173778	8	0.194051
			9	0.162884	10	0.204919
			12	0.137210	12	0.324956
			BIAS CORR	0.644978		
			VAN COEFF	0.010013		0.013679
			EFFICIENCY	98.26		99.07
11	12	4	1	0.374240	4	0.181620
			4	0.244987	8	0.214114
			8	0.224976	10	0.204060
			12	0.144147	12	0.330632
			BIAS CORR	0.644007		
			VAN COEFF	0.010183		0.013771
			EFFICIENCY	98.99		99.49
11	12	5	1	0.410480	4	0.300444
			8	0.244103	10	0.280360
			11	0.249217	12	0.334534
			BIAS CORR	0.674996		
			VAN COEFF	0.010924		0.013460
			EFFICIENCY	93.44		97.13
11	12	7	1	0.911449	8	0.461343
			8	0.488009	12	0.418911
			BIAS CORR	0.677644		
			VAN COEFF	0.011977		0.014981
			EFFICIENCY	84.47		92.79
11	12	1	4	1.000000	11	0.623520
			BIAS CORR	0.638264		
			VAN COEFF	0.017128		0.014086



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L		LOCATION		SCALE
			EFFICIENCY	57.43		74.97
11	11	11	1	0.310712	1	0.017785
			2	0.091297	2	0.027548
			3	0.075177	3	0.042621
			4	0.061395	4	0.037217
			5	0.065144	5	0.072624
			6	0.049539	6	0.049529
			7	0.060058	7	0.041577
			8	0.048756	8	0.072759
			9	0.054120	9	0.102111
			10	0.049437	10	0.103333
			11	0.134923	11	0.345194
			BIAS CORR	0.678347		
			VAN CUPP	0.004964		0.014803
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.77		84.54
11	11	11	1	0.311041	2	0.034671
			2	0.090987	3	0.042971
			3	0.076449	4	0.031207
			4	0.054070	5	0.072491
			5	0.040744	6	0.049743
			7	0.046171	7	0.041378
			8	0.044277	8	0.072527
			9	0.054581	9	0.101450
			10	0.044641	10	0.103459
			11	0.136447	11	0.345709
			BIAS CORR	0.678374		
			VAN CUPP	0.004470		0.014806
			EFFICIENCY	99.44		99.48
11	11	11	1	0.311361	2	0.034457
			2	0.084698	3	0.049940
			3	0.074880	4	0.043217
			4	0.054064	5	0.041605
			5	0.044340	6	0.044773
			7	0.108838	7	0.067894
			8	0.081144	8	0.106627
			9	0.047471	9	0.100341
			10	0.047471	10	0.100341
			11	0.137804	11	0.346406

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.678183		
			VAR COEFF	0.009976		0.014810
			EFFICIENCY	99.88		99.95
13	11	11	1	0.311662	2	0.038926
			2	0.089206	3	0.060110
			3	0.081896	5	0.114660
			4	0.049701	7	0.117573
			5	0.097705	8	0.064621
			7	0.108767	9	0.111185
			9	0.105172	10	0.096294
			11	0.155890	11	0.398227
			BIAS CORR	0.677555		
			VAR COEFF	0.009983		0.014815
			EFFICIENCY	99.81		99.92
13	11	7	1	0.311913	3	0.090799
			2	0.089161	5	0.114604
			3	0.104490	7	0.118795
			5	0.123765	8	0.062759
			7	0.108843	9	0.112708
			9	0.106178	10	0.095562
			11	0.199640	11	0.398743
			BIAS CORR	0.677889		
			VAR COEFF	0.009991		0.014826
			EFFICIENCY	99.73		99.85
13	11	6	1	0.344836	3	0.090810
			3	0.198477	5	0.115438
			5	0.123464	7	0.190737
			7	0.104671	9	0.142452
			9	0.106866	10	0.093807
			11	0.196161	11	0.400614
			BIAS CORR	0.680008		
			VAR COEFF	0.010034		0.014837
			EFFICIENCY	99.31		99.77
13	11	5	1	0.347084	3	0.090160
			3	0.198861	5	0.118344
			5	0.174824	7	0.191203
			7	0.197984	9	0.145407

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

K	M	L	I	LOCATION	I	SCALE
			11	0.156637	11	0.440190
			BIAS CORR	0.678419		
			VAR COEFF	0.010097		0.014873
			EFFICIENCY	98.68		99.53
11	11	4	1	0.350227	5	0.182451
			3	0.214671	7	0.151105
			7	0.236177	9	0.196792
			11	0.198926	11	0.442316
			BIAS CORR	0.676143		
			VAR COEFF	0.010193		0.014946
			EFFICIENCY	97.76		99.04
11	11	3	1	0.410680	5	0.259372
			3	0.344103	7	0.267462
			11	0.245217	11	0.443193
			BIAS CORR	0.674996		
			VAR COEFF	0.010324		0.015067
			EFFICIENCY	94.68		98.25
11	11	2	1	0.511945	7	0.406310
			5	0.488009	11	0.523354
			BIAS CORR	0.672644		
			VAR COEFF	0.011577		0.015471
			EFFICIENCY	86.07		98.48
11	11	1	4	1.000000	11	0.673525
			BIAS CORR	0.638264		
			VAR COEFF	0.017170		0.018086
			EFFICIENCY	96.18		91.87
11	10	10	1	0.313518	1	0.014913
			2	0.044164	2	0.034873
			3	0.071110	3	0.030167
			4	0.074189	4	0.074416
			5	0.048140	5	0.022662
			6	0.049599	6	0.111740
			7	0.047652	7	0.092028
			8	0.048897	8	0.104467
			9	0.048859	9	0.092444
			10	0.174179	10	0.327077

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

K	M	L	J	LOCATION	I	SCALE
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.657464		
				0.010125		0.016298
				100.00		100.00
				96.22		76.78
11	12	4	1	0.315520	1	0.018868
			2	0.045125	2	0.035103
			3	0.048777	3	0.029675
			4	0.077710	4	0.089478
			5	0.044991	5	0.123407
			6	0.093962	6	0.050417
			8	0.082007	8	0.112603
			9	0.045761	9	0.089882
			10	0.176154	10	0.508679
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.657430		0.016330
				0.010130		99.99
				99.99		
11	10	8	1	0.319604	1	0.018834
			2	0.045570	2	0.047487
			3	0.067985	3	0.105973
			4	0.044573	4	0.124409
			5	0.116561	5	0.048245
			6	0.085644	6	0.115219
			8	0.039877	8	0.087632
			9	0.039877	9	0.087632
			10	0.174232	10	0.509754
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.657644		0.016333
				0.010132		99.97
				99.90		
11	10	7	1	0.319660	2	0.060307
			2	0.046304	4	0.102959
			3	0.065574	6	0.124565
			4	0.101670	7	0.047496
			6	0.117126	8	0.115497
			8	0.106897	9	0.087493
			10	0.147107	10	0.509930
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.657291		0.016306
				0.010141		99.95
				99.84		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	J	SCALE
13	10	6	1	0.316116	2	0.060127
			2	0.123868	4	0.106691
			4	0.138069	6	0.148519
			6	0.117000	8	0.139718
			8	0.107661	9	0.084852
			10	0.197285	10	0.511804
			BIAS CORR	0.658006		
			VAR COEFF	0.010157		0.016312
			EFFICIENCY	99.69		99.91
12	10	5	1	0.318696	2	0.059410
			2	0.124767	4	0.108153
			4	0.167500	6	0.149833
			7	0.167044	8	0.184512
			10	0.221993	10	0.550427
			BIAS CORR	0.656080		
			VAR COEFF	0.010221		0.016336
			EFFICIENCY	99.06		99.77
11	10	4	1	0.354838	4	0.147173
			3	0.187752	6	0.149798
			6	0.212497	8	0.185147
			10	0.244914	10	0.551697
			BIAS CORR	0.656991		
			VAR COEFF	0.010297		0.016373
			EFFICIENCY	98.33		99.54
13	10	7	1	0.389189	4	0.218383
			4	0.311668	8	0.259481
			10	0.299144	10	0.554502
			BIAS CORR	0.655090		
			VAR COEFF	0.010559		0.016490
			EFFICIENCY	95.89		98.83
13	10	8	1	0.511995	6	0.360471
			8	0.488005	10	0.643116
			BIAS CORR	0.622644		
			VAR COEFF	0.011577		0.016748
			EFFICIENCY	87.46		97.32
13	10	1	4	1.000000	10	0.899984

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
17	9	9		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.638264		0.018559
				0.017128		87.82
				59.12		
			1	0.322138	1	0.022411
			2	0.092871	2	0.028834
			3	0.083250	3	0.067707
			4	0.053230	4	0.016054
			5	0.079229	5	0.120988
			6	0.042968	6	0.034833
			7	0.065067	7	0.116733
			8	0.048529	8	0.086721
			9	0.212719	9	0.620995
13	9	8		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.634882		0.018135
				0.010324		100.00
				100.00		69.00
				94.36		
			1	0.322397	1	0.022426
			2	0.092331	2	0.028750
			3	0.084575	3	0.075006
			4	0.051616	4	0.129770
			5	0.101139	5	0.034114
			6	0.087542	6	0.118074
			7	0.045325	7	0.084778
			8	0.215072	8	0.622160
			9	0.634960	9	
11	9	7		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.010328		0.018136
				99.95		100.00
			1	0.322726	1	0.022519
			2	0.091410	2	0.028302
			3	0.087507	3	0.075450
			4	0.046712	4	0.146470
			5	0.104639	5	0.135830
			6	0.110592	6	0.082386
			7	0.236415	7	0.623463
			8	0.634730	8	
			9	0.010334	9	0.018139
				99.90		99.98

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
13	9	6	1	0.322948	1	0.032511
			2	0.091365	3	0.092408
			3	0.108699	5	0.146424
			5	0.129125	7	0.136566
			7	0.110661	8	0.081245
			9	0.237202	9	0.624677
			BIAS CORR	0.635091		
			VAR COEFF	0.010341		0.018143
			EFFICIENCY	99.84		99.96
13	9	5	1	0.356742	3	0.109865
			3	0.164078	5	0.146429
			5	0.129350	7	0.137038
			7	0.111515	8	0.080649
			9	0.238314	9	0.625502
			BIAS CORR	0.637133		
			VAR COEFF	0.010386		0.018158
			EFFICIENCY	99.40		99.88
13	9	4	1	0.359044	3	0.109934
			3	0.164487	5	0.148128
			5	0.186169	7	0.178113
			9	0.290300	9	0.663789
			BIAS CORR	0.635385		
			VAR COEFF	0.010452		0.018176
			EFFICIENCY	98.78		99.78
13	9	3	1	0.415510	5	0.226499
			5	0.288438	7	0.179151
			9	0.296052	9	0.668240
			BIAS CORR	0.641621		
			VAR COEFF	0.010659		0.018284
			EFFICIENCY	96.86		99.19
13	9	2	1	0.511995	5	0.317620
			8	0.488005	9	0.755273
			BIAS CORR	0.622644		
			VAR COEFF	0.011577		0.018453
			EFFICIENCY	89.18		98.28
13	9	1	4	1.000000	9	0.977874

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.638264		
				0.017128		0.019767
				60.28		91.74
12	P	P	1	0.329085	1	0.022869
			2	0.099858	2	0.041847
			3	0.070035	3	0.027465
			4	0.082129	4	0.106930
			5	0.049027	5	0.033242
			6	0.068098	6	0.116774
			7	0.052778	7	0.087124
			8	0.248990	8	0.738568
				BIAS CORR		
				0.610351		
				VAR COEFF		0.020450
				0.010570		
				100.00		100.00
				EFF(M/N)		61.19
				92.16		
12	8	7	1	0.329203	1	0.022847
			2	0.100233	2	0.059325
			3	0.069446	4	0.122392
			4	0.105760	5	0.052753
			6	0.094109	6	0.117853
			7	0.049826	7	0.085231
			8	0.251423	8	0.739902
				BIAS CORR		
				0.610508		
				VAR COEFF		0.020453
				0.010577		
				EFFICIENCY		99.99
				99.94		
12	8	6	1	0.329236	1	0.022796
			2	0.101203	2	0.059367
			3	0.067139	4	0.137923
			4	0.107807	6	0.135199
			6	0.118937	7	0.083279
			8	0.275678	8	0.741511
				BIAS CORR		
				0.610344		
				VAR COEFF		0.020456
				0.010583		
				EFFICIENCY		99.97
				99.88		
12	8	5	1	0.329716	2	0.074884
			2	0.129451	4	0.137905
			4	0.145161	6	0.135385



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
13	8	4	6	0.118010	7	0.083000
			8	0.276862	8	0.741865
			BIAS CORR	0.611034		
			VAR COEFF	0.010600		0.020461
			EFFICIENCY	99.72		99.95
			1	0.332012	2	0.074644
			2	0.129979	4	0.139166
13	8	3	4	0.202048	6	0.176795
			8	0.335961	8	0.782627
			BIAS CORR	0.609925		
			VAR COEFF	0.010674		0.020479
			EFFICIENCY	99.03		99.86
			1	0.397673	4	0.188310
			4	0.262482	6	0.176820
13	8	2	8	0.339845	8	0.785160
			BIAS CORR	0.614218		
			VAR COEFF	0.010796		0.020538
			EFFICIENCY	97.91		99.57
			1	0.511995	4	0.272695
			8	0.488005	8	0.876593
			BIAS CORR	0.622644		
13	8	1	4	0.011577		0.020701
			VAR COEFF	0.011577		98.79
			EFFICIENCY	91.31		
			1	1.000000	8	1.061316
			BIAS CORR	0.638264		
			VAR COEFF	0.017128		0.021649
			EFFICIENCY	61.72		94.46
13	7	7	4	0.339469	1	0.079116
			1	0.097270	2	0.036763
			2	0.086837	3	0.080329
			3	0.061303	4	0.045911
			4	0.071826	5	0.108779
			5	0.056962	6	0.090560
			6	0.286334	7	0.866740
			7	0.583691		
			BIAS CORR	0.583691		
			VAR COEFF	0.010876		0.023444

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				89.58		53.38
				EFFICIENCY		
				EFF(M/N)		
13	7	6	1	0.339863	1	0.029143
			2	0.096671	2	0.036654
			3	0.088321	3	0.101138
			4	0.059685	5	0.133565
			5	0.100524	6	0.088993
			7	0.314936	7	0.868265
				BIAS CORR		
				0.583574		
				VAR COEFF		0.023450
				0.010884		
				EFFICIENCY		99.97
				99.92		
13	7	5	1	0.340220	1	0.042092
			2	0.096636	3	0.123112
			3	0.115428	5	0.133913
			5	0.131821	6	0.088113
			7	0.315896	7	0.869157
				BIAS CORR		
				0.583819		
				VAR COEFF		0.023457
				0.010895		
				EFFICIENCY		99.94
				99.83		
13	7	4	1	0.376059	1	0.041971
			3	0.174051	3	0.123627
			5	0.132073	5	0.176997
			7	0.317817	7	0.913770
				BIAS CORR		
				0.585726		
				VAR COEFF		0.023477
				0.010945		
				EFFICIENCY		99.86
				99.37		
13	7	3	1	0.379145	3	0.146202
			3	0.232708	5	0.177018
			7	0.388148	7	0.914760
				BIAS CORR		
				0.585385		
				VAR COEFF		0.023501
				0.011041		
				EFFICIENCY		99.76
				98.50		
13	7	2	1	0.495017	3	0.223594
			7	0.504983	7	1.011854
				BIAS CORR		
				0.594833		
				VAR COEFF		0.023673
				0.011614		

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		93.65
						99.03
13	7	1	4	1.000000	7	1.154511
				BIAS CORR		
				0.638264		
				VAR COEFF		0.024326
				0.017128		
				EFFICIENCY		96.37
				63.50		
13	6	6	1	0.350635	1	0.030934
			2	0.105069	2	0.057897
			3	0.079499	3	0.058374
			4	0.076073	4	0.096862
			5	0.064905	5	0.094953
			6	0.323819	6	1.012687
				BIAS CORR		
				0.554463		
				VAR COEFF		0.027458
				0.011263		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		45.57
				86.49		
13	6	5	1	0.350892	2	0.078982
			2	0.105509	3	0.058337
			3	0.078956	4	0.096932
			4	0.107194	5	0.094813
			6	0.357448	6	1.013157
				BIAS CORR		
				0.554416		
				VAR COEFF		0.027468
				0.011274		
				EFFICIENCY		99.96
				99.90		
13	6	4	1	0.351567	2	0.103371
			2	0.138776	4	0.129609
			4	0.151153	5	0.094077
			6	0.358504	6	1.014258
				BIAS CORR		
				0.554946		
				VAR COEFF		0.027481
				0.011298		
				EFFICIENCY		99.92
				99.69		
13	6	3	1	0.391802	2	0.103476
			3	0.208894	4	0.174215
			6	0.399303	6	1.063398
				BIAS CORR		
				0.556209		
				VAR COEFF		0.027504
				0.011382		
				EFFICIENCY		99.83
				98.95		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	0.482005	4	0.242584
			6	0.517995	6	1.067427
			BIAS CORR	0.563433		
			VAR COEFF	0.011788		0.027618
			EFFICIENCY	95.55		99.42
13	6	1	4	1.000000	6	1.262977
			BIAS CORR	0.638264		
			VAR COEFF	0.017128		0.026102
			EFFICIENCY	65.76		97.71
13	5	5	1	0.366761	1	0.039143
			2	0.106989	2	0.059875
			3	0.087534	3	0.086654
			4	0.074549	4	0.099109
			5	0.364168	5	1.185029
			BIAS CORR	0.522016		
			VAR COEFF	0.011765		0.033126
			EFFICIENCY	100.00		100.00
			EFF(M/N)	82.81		37.78
13	5	4	1	0.367309	2	0.086560
			2	0.106984	3	0.086623
			3	0.121413	4	0.099200
			5	0.404293	5	1.185491
			BIAS CORR	0.522086		
			VAR COEFF	0.011782		0.033141
			EFFICIENCY	99.86		99.95
13	5	3	1	0.407195	2	0.122807
			3	0.186398	4	0.147750
			5	0.406408	5	1.186161
			BIAS CORR	0.523784		
			VAR COEFF	0.011843		0.033170
			EFFICIENCY	99.34		99.87
13	5	2	1	0.472435	3	0.199941
			5	0.527565	5	1.241115
			BIAS CORR	0.528356		
			VAR COEFF	0.012110		0.033224

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		EFFICIENCY
13	5	1	4	1.000000	5	1.395286
				0.638264		0.033584
				0.017128		98.64
				68.69		
13	4	4	1	0.387556	1	0.047428
			2	0.113876	2	0.078064
			3	0.090677	3	0.101669
			4	0.407891	4	1.399738
				0.485244		0.041733
				0.012448		100.00
				100.00		99.99
				78.26		
13	4	3	1	0.388455	2	0.110409
			2	0.152126	3	0.101639
			4	0.459419	4	1.400463
				0.485618		0.041757
				0.012478		99.94
				99.75		
13	4	2	1	0.466221	2	0.152958
			4	0.533779	4	1.458297
				0.488967		0.041795
				0.012646		99.85
				98.43		
13	4	1	4	1.000000	4	1.566750
				0.638264		0.042043
				0.017128		99.26
				72.68		
13	3	3	1	0.418183	1	0.062840
			2	0.122011	2	0.101348
			3	0.459807	3	1.690361
				0.442318		0.056352
				0.013440		100.00
				100.00		22.21
				72.48		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
12	3	2	1	0.464007	2	0.144227
			3	0.535993	3	1.691412
			BIAS CORR	0.443778		
			VAR COEFF	0.013521		0.056393
			EFFICIENCY	99.41		99.93
12	3	1	3	1.000000	3	1.809519
			BIAS CORR	0.552633		
			VAR COEFF	0.017268		0.056540
			EFFICIENCY	77.83		99.67
12	2	2	1	0.467957	1	0.091650
			2	0.532043	2	2.145290
			BIAS CORR	0.389603		
			VAR COEFF	0.015071		0.086530
			EFFICIENCY	100.00		100.00
12	2	1	2	1.000000	2	2.209698
			BIAS CORR	0.452551		
			VAR COEFF	0.017739		0.086617
			EFFICIENCY	84.96		99.90
12	1	1	1	1.000000	1	3.144304
			BIAS CORR	0.318035		
			VAR COEFF	0.018520		0.183105
			EFFICIENCY	100.00		100.00
			EFF(M/N)	52.60		6.83

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
11	11	11	1	0.222241	1	0.015637
			2	0.087447	2	0.027885
			3	0.077729	3	0.039206
			4	0.073441	4	0.049887
			5	0.072032	5	0.061124
			6	0.071609	6	0.072474
			7	0.072667	7	0.086130
			8	0.074109	8	0.101163
			9	0.076736	9	0.119770
			10	0.080664	10	0.145421
			11	0.090775	11	0.204536
BIAS CORR				0.826363		
VAR COEFF				0.009208		0.010346
EFFICIENCY				100.00		100.00
EFF(M/N)				100.00		100.00
11	11	11	1	0.222636	2	0.034012
			2	0.087713	3	0.036477
			3	0.078707	4	0.044412
			4	0.072480	5	0.061075
			5	0.108132	6	0.073034
			6	0.108136	7	0.086074
			7	0.073043	8	0.101230
			8	0.077748	9	0.119763
			9	0.080371	10	0.145467
			10	0.090464	11	0.204599
			BIAS CORR			
VAR COEFF				0.009221		0.010349
EFFICIENCY				99.86		99.97
11	11	11	1	0.222767	2	0.034418
			2	0.088490	3	0.071474
			3	0.076241	4	0.060731
			4	0.109149	5	0.073754
			5	0.145780	6	0.089194
			6	0.104410	7	0.102055
			7	0.071719	8	0.114453
			8	0.081966	9	0.145554
			9	0.040472	10	0.204698
			10	0.826112	11	0.204698
			BIAS CORR			
VAR COEFF				0.009236		0.010355

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				99.70		99.92
			EFFICIENCY			
11	11	9	1	0.223484	2	0.054954
			2	0.087479	4	0.103816
			3	0.111830	6	0.105139
			5	0.147212	7	0.084049
			7	0.148433	8	0.103590
			9	0.110108	9	0.118539
			10	0.080131	10	0.146153
			11	0.091323	11	0.209842
			BIAS CORR	0.825898		
			VAR COEFF	0.009254		0.010365
			EFFICIENCY	99.51		99.82
11	11	7	1	0.223800	3	0.092974
			2	0.120544	5	0.123791
			4	0.152836	7	0.123673
			6	0.146615	8	0.098675
			8	0.154052	9	0.122006
			10	0.110892	10	0.145210
			11	0.091261	11	0.210337
			BIAS CORR	0.825495		
			VAR COEFF	0.009283		0.010381
			EFFICIENCY	99.20		99.66
11	11	6	1	0.255172	3	0.093233
			3	0.167062	5	0.124580
			5	0.148709	7	0.177532
			7	0.149899	9	0.165311
			9	0.164250	10	0.145424
			11	0.114906	11	0.210981
			BIAS CORR	0.824359		
			VAR COEFF	0.009347		0.010413
			EFFICIENCY	98.51		99.36
11	11	5	1	0.257672	4	0.171244
			3	0.200622	7	0.210894
			6	0.229196	9	0.165412
			9	0.196468	10	0.147106
			11	0.216040	11	0.212066
			BIAS CORR	0.823491		



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.009434 97.60		0.010473 98.79
11	11	4	1	0.287987	5	0.234768
			4	0.287375	8	0.251161
			8	0.286939	10	0.195675
			11	0.137699	11	0.214231
				BIAS CORR		
				0.820637		
				VAR COEFF		0.010586
				EFFICIENCY		97.74
11	11	3	1	0.323912	6	0.312226
			5	0.396893	9	0.309975
			10	0.279195	11	0.262113
				BIAS CORR		
				0.799416		
				VAR COEFF		0.010342
				EFFICIENCY		95.43
11	11	2	1	0.408856	8	0.530603
			7	0.591144	11	0.314686
				BIAS CORR		
				0.732789		
				VAR COEFF		0.011617
				EFFICIENCY		89.06
11	11	1	5	1.000000	9	0.882538
				BIAS CORR		
				0.810293		
				VAR COEFF		0.014845
				EFFICIENCY		69.70
11	13	13	1	0.226604	1	0.017187
			2	0.089759	2	0.030769
			3	0.079073	3	0.042472
			4	0.075258	4	0.055839
			5	0.072760	5	0.065563
			6	0.073626	6	0.081900
			7	0.073448	7	0.093139
			8	0.075581	8	0.111389
			9	0.077645	9	0.130335
			10	0.156245	10	0.344439
				BIAS CORR		
				0.802204		
				VAR COEFF		0.011386

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		90.85
11	10	9	1	0.227019	2	0.043001
			2	0.089470	3	0.042442
			3	0.080081	4	0.055868
			4	0.074274	5	0.065511
			5	0.109881	6	0.081907
			7	0.109941	7	0.093130
			8	0.074541	8	0.111474
			9	0.078688	9	0.130353
			10	0.156105	10	0.344551
				BIAS CORR		
				VAR COEFF		0.011392
				EFFICIENCY		99.97
11	10	8	1	0.227142	2	0.060324
			2	0.090725	4	0.079901
			3	0.077572	5	0.065141
			4	0.111327	6	0.082701
			6	0.148575	7	0.092174
			8	0.111265	8	0.112369
			9	0.076114	9	0.129999
			10	0.157280	10	0.344862
				BIAS CORR		
				VAR COEFF		0.011398
				EFFICIENCY		99.91
11	10	7	1	0.227904	2	0.060366
			2	0.089239	4	0.110838
			3	0.114030	6	0.116367
			5	0.149937	7	0.090951
			7	0.151029	8	0.114024
			9	0.111697	9	0.129027
			10	0.156165	10	0.345543
				BIAS CORR		
				VAR COEFF		0.011410
				EFFICIENCY		99.81
11	10	6	1	0.228207	3	0.102343
			2	0.122878	5	0.135836

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			4	0.155789	7	0.135331
			6	0.149433	8	0.108648
			8	0.156450	9	0.132880
			10	0.187243	10	0.345048
			BIAS CORR	0.801199		
			VAR COEFF	0.009466		0.011432
			EFFICIENCY	99.19		99.62
11	10		1	0.260744	3	0.102700
			3	0.170407	5	0.136746
			5	0.189168	7	0.194691
			8	0.190632	9	0.180515
			10	0.189048	10	0.345957
			BIAS CORR	0.802274		
			VAR COEFF	0.009543		0.011470
			EFFICIENCY	98.39		99.28
11	10	4	1	0.264190	4	0.188679
			3	0.238187	7	0.231225
			7	0.279058	9	0.180803
			10	0.218564	10	0.348926
			BIAS CORR	0.800631		
			VAR COEFF	0.009683		0.011542
			EFFICIENCY	96.96		98.67
11	10	7	1	0.323912	5	0.258207
			5	0.396893	8	0.275633
			10	0.279195	10	0.404184
			BIAS CORR	0.799416		
			VAR COEFF	0.010079		0.011677
			EFFICIENCY	93.16		97.53
11	10	2	1	0.408856	6	0.425312
			7	0.591144	10	0.500388
			BIAS CORR	0.732789		
			VAR COEFF	0.011311		0.012122
			EFFICIENCY	83.01		93.94
11	10	1	5	1.000000	9	0.882538
			BIAS CORR	0.810293		
			VAR COEFF	0.015549		0.014845

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				60.39		76.71
				EFFICIENCY		
11	9	9	1	0.232516	1	0.019187
			2	0.091783	2	0.033507
			3	0.082139	3	0.049689
			4	0.074862	4	0.056521
			5	0.077693	5	0.080243
			6	0.072491	6	0.083749
			7	0.076827	7	0.107228
			8	0.076308	8	0.121008
			9	0.215380	9	0.469597
				BIAS CORR		
				0.775822		
				VAR COEFF		0.012674
				0.009633		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		81.03
				95.59		
11	9	3	1	0.232920	2	0.047163
			2	0.091497	3	0.049657
			3	0.083129	4	0.056554
			4	0.073893	5	0.080190
			5	0.114230	6	0.083869
			7	0.112754	7	0.107167
			8	0.075283	8	0.121108
			9	0.216286	9	0.469740
				BIAS CORR		
				0.775677		
				VAR COEFF		0.012679
				0.009647		
				EFFICIENCY		99.96
				99.86		
11	9	7	1	0.233327	2	0.067438
			2	0.091505	4	0.084678
			3	0.116425	5	0.079773
			5	0.153515	6	0.084801
			7	0.114267	7	0.106054
			8	0.073465	8	0.122166
			9	0.217496	9	0.469684
				BIAS CORR		
				0.776028		
				VAR COEFF		0.012688
				0.009663		
				EFFICIENCY		99.89
				99.69		
11	9	6	1	0.233810	3	0.113012
			2	0.091264	5	0.110961

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			3	0.116913	6	0.082396
			5	0.154099	7	0.109588
			7	0.154244	8	0.119303
			9	0.249670	9	0.471547
			BIAS CORR	0.775205		
			VAR COEFF	0.009681		0.012705
			EFFICIENCY	99.51		99.76
11	9		1	0.265553	3	0.113283
			3	0.173749	5	0.151882
			5	0.154710	7	0.150427
			7	0.155170	8	0.118218
			9	0.250818	9	0.472869
			BIAS CORR	0.777701		
			VAR COEFF	0.009729		0.012723
			EFFICIENCY	99.02		99.62
11	9	4	1	0.268267	3	0.113660
			3	0.208891	5	0.152919
			6	0.237680	7	0.215074
			9	0.285163	9	0.525796
			BIAS CORR	0.776322		
			VAR COEFF	0.009824		0.012768
			EFFICIENCY	98.06		99.26
11	9	3	1	0.324708	4	0.208564
			5	0.350548	7	0.257236
			9	0.324744	9	0.529441
			BIAS CORR	0.782390		
			VAR COEFF	0.010107		0.012864
			EFFICIENCY	95.31		98.53
11	9	2	1	0.408856	5	0.353050
			7	0.591144	9	0.630067
			BIAS CORR	0.732789		
			VAR COEFF	0.011311		0.013155
			EFFICIENCY	85.17		96.35
11	9	1	5	1.000000	9	0.882538
			BIAS CORR	0.810293		
			VAR COEFF	0.015549		0.014845

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				61.95		85.38
				EFFICIENCY		
11	8	2	1	0.239895	1	0.021290
			2	0.095617	2	0.039843
			3	0.081706	3	0.048672
			4	0.082833	4	0.076957
			5	0.073403	5	0.074285
			6	0.079433	6	0.105393
			7	0.076444	7	0.114091
			8	0.270669	8	0.593504
				BIAS CORR		
				0.747298		
				VAR COEFF		0.014293
				0.009943		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		72.39
				92.59		
11	8	7	1	0.240175	2	0.054999
			2	0.095984	3	0.048636
			3	0.081340	4	0.077000
			4	0.118008	5	0.074224
			6	0.117407	6	0.105534
			7	0.075075	7	0.114025
			8	0.272012	8	0.593774
				BIAS CORR		
				0.747362		
				VAR COEFF		0.014299
				0.009959		
				EFFICIENCY		99.96
				99.86		
11	8	6	1	0.240465	2	0.074856
			2	0.096614	4	0.104543
			3	0.080176	5	0.073816
			4	0.119256	6	0.106444
			6	0.156267	7	0.112944
			8	0.307222	8	0.594754
				BIAS CORR		
				0.746894		
				VAR COEFF		0.014308
				0.009975		
				EFFICIENCY		99.90
				99.70		
11	8	5	1	0.240993	2	0.074915
			2	0.129633	4	0.139614
			4	0.164592	6	0.144601
			6	0.156686	7	0.111594
			8	0.308096	8	0.596309

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
11	8	4		BIAS CORR		
				VAR COEFF		0.014322
				EFFICIENCY		99.80
			1	0.275625	2	0.074935
			3	0.179779	4	0.140456
			5	0.198942	6	0.202431
			8	0.345654	8	0.649488
				BIAS CORR		
				VAR COEFF		0.014357
				EFFICIENCY		99.56
			1	0.306360	4	0.191441
			4	0.305301	6	0.203057
11	8	7	8	0.388339	8	0.652312
				BIAS CORR		
				VAR COEFF		0.014420
				EFFICIENCY		99.12
			1	0.408856	5	0.320271
			7	0.591144	8	0.710375
				BIAS CORR		
				VAR COEFF		0.014625
				EFFICIENCY		97.73
			5	1.000000	8	0.959262
				BIAS CORR		
				VAR COEFF		0.015736
				EFFICIENCY		90.93
11	7	7	1	0.249664	1	0.024968
			2	0.097611	2	0.041317
			3	0.089775	3	0.067470
			4	0.078046	4	0.068704
			5	0.083393	5	0.102285
			6	0.077628	6	0.109336
			7	0.323682	7	0.721370
				BIAS CORR		
				VAR COEFF		0.016390
				EFFICIENCY		100.00
				EFF(M/N)		63.12
						89.05

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
11	7	6	1	0.250123	2	0.059093
			2	0.097319	3	0.067438
			3	0.090830	4	0.068751
			4	0.077046	5	0.102228
			5	0.122617	6	0.109533
			7	0.362065	7	0.721617
			BIAS CORR		0.716085	
			VAR COEFF		0.010356	
			EFFICIENCY		99.85	
					0.016398	
11	7	5	1	0.250565	2	0.059017
			2	0.097344	3	0.098316
			3	0.125548	5	0.139205
			5	0.163571	6	0.108457
			7	0.362972	7	0.723049
			BIAS CORR		0.716370	
			VAR COEFF		0.010374	
			EFFICIENCY		99.68	
					0.016412	
					99.87	
11	7	4	1	0.284515	3	0.145943
			3	0.186232	5	0.139674
			5	0.164269	6	0.107792
			7	0.364984	7	0.724661
			BIAS CORR		0.718745	
			VAR COEFF		0.010429	
			EFFICIENCY		99.16	
					0.016438	
					99.71	
11	7	3	1	0.288352	3	0.146361
			3	0.259488	5	0.193279
			7	0.452160	7	0.778484
			BIAS CORR		0.718364	
			VAR COEFF		0.010577	
			EFFICIENCY		97.77	
					0.016468	
					99.52	
11	7	2	1	0.408856	4	0.266903
			7	0.591144	7	0.836586
			BIAS CORR		0.732789	
			VAR COEFF		0.011311	
			EFFICIENCY		91.42	
					0.016622	
					98.60	
11	7	1	5	1.000000	7	1.039605



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.810293		
			VAR COEFF	0.015549		0.017337
			EFFICIENCY	66.50		94.27
11	6	6	1	0.261491	1	0.028148
			2	0.104376	2	0.053321
			3	0.088864	3	0.065825
			4	0.088005	4	0.095773
			5	0.082254	5	0.106845
			6	0.375010	6	0.858555
			BIAS CORR	0.682435		
			VAR COEFF	0.010849		0.019211
			EFFICIENCY	100.00		100.00
			EFF(M/N)	84.38		53.85
		5	1	0.261853	2	0.073367
			2	0.104794	3	0.065789
			3	0.098500	4	0.095835
			4	0.127417	5	0.106783
			5	0.417436	6	0.859033
			BIAS CORR	0.682350		
11	6	4	1	0.262503	2	0.100252
			2	0.141275	4	0.133094
			4	0.177500	5	0.106293
			6	0.418719	6	0.860164
			BIAS CORR	0.683079		
			VAR COEFF	0.010897		0.019237
			EFFICIENCY	99.56		99.86
		3	1	0.300268	2	0.100387
			3	0.231679	4	0.183667
			6	0.468054	6	0.915526
			BIAS CORR	0.684835		
			VAR COEFF	0.010997		0.019268
			EFFICIENCY	98.66		99.71
11	6	2	1	0.393151	3	0.213543
			6	0.606849	6	0.973174

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.695388	
				VAR COEFF	0.011510	0.019380
				EFFICIENCY	94.26	99.13
11	6	1	5	1.000000	6	1.128961
				BIAS CORR	0.810293	
				VAR COEFF	0.015549	0.019905
				EFFICIENCY	69.77	96.51
11	5	1	1	0.277880	1	0.034633
			2	0.108866	2	0.059318
			3	0.097201	3	0.086934
			4	0.089597	4	0.105678
			5	0.426456	5	1.012354
				BIAS CORR	0.644742	
				VAR COEFF	0.011519	0.023206
				EFFICIENCY	100.00	100.00
				EFF(M/N)	79.94	44.58
11	5	4	1	0.278474	2	0.083989
			2	0.108929	3	0.086934
			3	0.137610	4	0.105762
			5	0.474987	5	1.012895
				BIAS CORR	0.644867	
				VAR COEFF	0.011543	0.023221
				EFFICIENCY	99.79	99.94
11	5	1	1	0.316663	2	0.119536
			3	0.205635	4	0.155017
			5	0.477701	5	1.013828
				BIAS CORR	0.647081	
				VAR COEFF	0.011611	0.023249
				EFFICIENCY	99.20	99.91
11	5	2	1	0.383070	3	0.202311
			5	0.616930	5	1.072812
				BIAS CORR	0.653705	
				VAR COEFF	0.011942	0.023307
				EFFICIENCY	96.45	99.57
11	5	1	5	1.000000	5	1.234122

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.810247		
				0.015549		0.023687
				74.08		97.49
11	4	4	1	0.299701	1	0.042380
			2	0.117497	2	0.075955
			3	0.102900	3	0.103909
			4	0.479407	4	1.144795
				BIAS CORR		
				0.601916		
				VAR COEFF		0.029274
				EFFICIENCY		100.00
				EFF(M/N)		35.32
11	4	3	1	0.300597	2	0.106160
			2	0.160481	3	0.103843
			4	0.538927	4	1.145616
				BIAS CORR		
				0.607475		
				VAR COEFF		0.024316
				EFFICIENCY		99.93
11	4	2	1	0.377880	2	0.145684
			4	0.622120	4	1.255702
				BIAS CORR		
				0.607084		
				VAR COEFF		0.024357
				EFFICIENCY		99.74
11	4	1	4	1.000000	4	1.366278
				BIAS CORR		
				0.731947		
				VAR COEFF		0.024606
				EFFICIENCY		98.45
11	3	3	1	0.337316	1	0.096161
			2	0.129666	2	0.098563
			3	0.938018	3	1.424644
				BIAS CORR		
				0.951584		
				VAR COEFF		0.034688
				EFFICIENCY		100.00
				EFF(M/N)		26.07
11	3	2	1	0.378141	2	0.138019
			3	0.621804	3	1.430913

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

I	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.039717
				EFFICIENCY		99.40
11	2	1	3	1.000000	3	1.547804
				BIAS CORR		
				VAR COEFF		0.039872
				EFFICIENCY		99.54
11	2	2	1	0.396695	1	0.082021
			2	0.613305	2	1.777381
				BIAS CORR		
				VAR COEFF		0.061345
				EFFICIENCY		100.00
				EFF(M/N)		16.87
11	7	1	2	1.000000	2	1.837909
				BIAS CORR		
				VAR COEFF		0.061427
				EFFICIENCY		99.87
11	1	1	1	1.000000	1	2.490516
				BIAS CORR		
				VAR COEFF		0.132093
				EFFICIENCY		100.00
				EFF(M/N)		7.83
12	12	12	1	0.213879	1	0.013535
			2	0.083091	2	0.024049
			3	0.072716	3	0.033487
			4	0.068080	4	0.042707
			5	0.066459	5	0.051902
			6	0.065377	6	0.061752
			7	0.066213	7	0.072015
			8	0.066691	8	0.083795
			9	0.068597	9	0.097138
			10	0.070800	10	0.113861
			11	0.074464	11	0.136973
			12	0.083634	12	0.195281
				BIAS CORR		
				VAR COEFF		0.009467

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.214258	2	0.033729
			2	0.082391	3	0.033444
			3	0.074609	4	0.042756
			4	0.065796	5	0.051800
			5	0.099599	6	0.061921
			7	0.100235	7	0.071846
			8	0.063121	8	0.083960
			9	0.072775	9	0.097070
			10	0.068120	10	0.113921
			11	0.075505	11	0.136994
			12	0.083590	12	0.195324
				BIAS CORR		
				VAR COEFF		0.009469
				EFFICIENCY		99.98
12	12	10	1	0.214086	2	0.047254
			2	0.084706	4	0.067051
			3	0.069214	5	0.051007
			4	0.102283	6	0.063414
			5	0.132350	7	0.069683
			8	0.103390	8	0.086285
			9	0.061275	9	0.095476
			10	0.075681	10	0.114703
			11	0.072973	11	0.136858
			12	0.084040	12	0.195424
				BIAS CORR		
				VAR COEFF		0.009473
				EFFICIENCY		99.94
12	12	9	1	0.214920	2	0.047255
			2	0.081457	4	0.086019
			3	0.104726	6	0.090745
			5	0.135674	7	0.066827
			7	0.133423	8	0.090536
			9	0.104302	9	0.091480
			10	0.065203	10	0.117089
			11	0.076661	11	0.136224
			12	0.083634	12	0.195634

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.824634		
			VAR COEFF	0.008455	0.009479	
			EFFICIENCY	99.66	99.87	
12	12	5	1	0.214626	2	0.047083
			2	0.112796	4	0.086919
			4	0.142331	6	0.124212
			6	0.133125	8	0.123694
			8	0.137732	9	0.089421
			10	0.102349	10	0.118958
			11	0.072689	11	0.135618
			12	0.084351	12	0.195951
			BIAS CORR	0.824835		
			VAR COEFF	0.008471	0.009488	
			EFFICIENCY	99.46	99.77	
12	12	7	1	0.243350	3	0.080045
			3	0.155692	5	0.105942
			5	0.137035	7	0.146361
			7	0.134610	9	0.140247
			9	0.143281	10	0.108999
			11	0.101971	11	0.139316
			12	0.084060	12	0.195749
			BIAS CORR	0.825699		
			VAR COEFF	0.008507	0.009503	
			EFFICIENCY	99.04	99.62	
12	12	6	1	0.246011	4	0.120016
			3	0.183814	6	0.125203
			6	0.174635	8	0.173128
			8	0.136682	10	0.158224
			10	0.152937	11	0.135862
			12	0.105921	12	0.196941
			BIAS CORR	0.823656		
			VAR COEFF	0.008574	0.009535	
			EFFICIENCY	98.27	99.28	
12	12	7	1	0.247900	4	0.144233
			3	0.216428	7	0.178897
			7	0.248149	9	0.204269
			10	0.180173	11	0.183235

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	12	4	12	0.107351	12	0.197748
			BIAS CORR	0.822529		
			VAR COEFF	0.008666		0.009601
			EFFICIENCY	97.23		98.60
12	12	4	1	0.276511	5	0.241049
			4	0.267058	9	0.273982
			8	0.255579	11	0.184116
			11	0.200852	12	0.199722
			BIAS CORR	0.804000		
12	12	2		0.008861		0.009705
			VAR COEFF	95.09		97.54
			EFFICIENCY			
12	12	2	1	0.311299	6	0.317213
			5	0.361413	10	0.328918
			10	0.327287	12	0.244147
			BIAS CORR	0.781682		
			VAR COEFF	0.009276		0.009934
12	12	2		90.83		95.30
			EFFICIENCY			
12	12	2	1	0.409962	8	0.542806
			9	0.590038	12	0.321968
			BIAS CORR	0.744958		
			VAR COEFF	0.010422		0.010715
			EFFICIENCY	80.85		88.34
12	12	1				
			6	1.000000	10	0.865936
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.013600
			EFFICIENCY	58.88		69.61
12	11	11	1	0.217642	1	0.014790
			2	0.084461	2	0.026023
			3	0.074297	3	0.037304
			4	0.068480	4	0.044619
			5	0.068925	5	0.059898
			6	0.064835	6	0.063164
			7	0.068797	7	0.082155
			8	0.066722	8	0.088598
			9	0.070112	9	0.106792
			10	0.071388	10	0.122625

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			11	0.144342	11	0.321213
			BIAS CORR	0.802616		
			VAR COEFF	0.008574		0.010332
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.27		91.63
12	11	10	1	0.218016	2	0.036602
			2	0.083766	3	0.037264
			3	0.076174	4	0.044673
			4	0.066215	5	0.059789
			5	0.101789	6	0.063349
			7	0.102536	7	0.081973
			8	0.063182	8	0.086780
			9	0.074255	9	0.106721
			10	0.068730	10	0.122692
			11	0.145338	11	0.321291
			BIAS CORR	0.802610		
			VAR COEFF	0.008583		0.010334
			EFFICIENCY	99.89		99.98
12	11	9	1	0.218401	2	0.051675
			2	0.082902	4	0.066173
			3	0.079207	5	0.058910
			4	0.061130	6	0.065013
			5	0.105540	7	0.079569
			7	0.135262	8	0.091374
			9	0.103882	9	0.104950
			10	0.067821	10	0.123569
			11	0.145855	11	0.321234
			BIAS CORR	0.802250		
			VAR COEFF	0.008593		0.010339
			EFFICIENCY	99.78		99.93
12	11	8	1	0.218682	2	0.051681
			2	0.082831	4	0.093865
			3	0.106479	6	0.096197
			5	0.138090	7	0.076292
			7	0.135760	8	0.086348
			9	0.105824	9	0.100346
			10	0.065799	10	0.126336
			11	0.146536	11	0.320731



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.802627		
			VAR COEFF	0.008603		0.010347
			EFFICIENCY	99.66		99.85
12	11	7	1	0.219177	3	0.086973
			2	0.082625	5	0.114414
			3	0.106666	7	0.118169
			5	0.139153	8	0.080277
			7	0.136000	9	0.114790
			9	0.144549	10	0.118440
			11	0.171831	11	0.323243
			BIAS CORR	0.801215		
			VAR COEFF	0.008620		0.010357
			EFFICIENCY	99.46		99.76
12	11	6	1	0.247610	3	0.087067
			3	0.158319	5	0.115739
			5	0.139478	7	0.159756
			7	0.136977	9	0.152316
			9	0.145174	10	0.117602
			11	0.172442	11	0.324129
			BIAS CORR	0.803607		
			VAR COEFF	0.008657		0.010372
			EFFICIENCY	99.04		99.61
12	11	5	1	0.249995	4	0.131167
			3	0.190263	6	0.135953
			6	0.208948	8	0.188425
			9	0.176382	10	0.171598
			11	0.174411	11	0.321671
			BIAS CORR	0.803163		
			VAR COEFF	0.008731		0.010416
			EFFICIENCY	98.20		99.19
12	11	4	1	0.276511	4	0.156916
			4	0.267058	7	0.195769
			3	0.255579	9	0.221587
			11	0.200852	11	0.373642
			BIAS CORR	0.804000		
			VAR COEFF	0.008861		0.010489
			EFFICIENCY	96.76		98.50

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	0.311299	5	0.263447
			5	0.361413	9	0.297985
			10	0.327287	11	0.376658
			BIAS CORR	0.781682		
			VAR COEFF	0.009276		0.010612
			EFFICIENCY	92.42		97.36
12	11	2	1	0.409962	7	0.443131
			8	0.590038	11	0.468592
			BIAS CORR	0.744958		
			VAR COEFF	0.010422		0.011040
			EFFICIENCY	82.27		93.58
12	11	1	6	1.000000	10	0.865936
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.013600
			EFFICIENCY	59.91		75.97
12	10	10	1	0.222550	1	0.016106
			2	0.086919	2	0.029915
			3	0.073920	3	0.036103
			4	0.074803	4	0.060532
			5	0.062939	5	0.047842
			6	0.074412	6	0.088954
			7	0.063790	7	0.074709
			8	0.071815	8	0.106117
			9	0.069434	9	0.112143
			10	0.199420	10	0.437901
			BIAS CORR	0.778702		
			VAR COEFF	0.008770		0.011379
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.07		83.20
12	10	9	1	0.222610	2	0.041436
			2	0.087998	3	0.036059
			3	0.071320	4	0.060594
			4	0.078804	5	0.047721
			5	0.059494	6	0.089161
			6	0.108111	7	0.074510
			8	0.103688	8	0.106320

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	10	5	9	0.067062	9	0.112067
			10	0.200913	10	0.438047
			BIAS CORR	0.778573		
			VAR COEFF	0.008779		0.011382
			EFFICIENCY	99.90		99.97
			1	0.222727	2	0.056021
			2	0.088456	4	0.081397
			3	0.070568	5	0.046872
			4	0.107218	6	0.090769
			6	0.138360	7	0.072184
12	10	7	8	0.107098	8	0.108827
			9	0.062470	9	0.110352
			10	0.203104	10	0.438851
			BIAS CORR	0.778771		
			VAR COEFF	0.008787		0.011336
			EFFICIENCY	99.80		99.93
			1	0.222932	2	0.056021
			2	0.089245	4	0.103419
			3	0.068263	6	0.115865
			4	0.109316	7	0.069577
12	10	9	6	0.139004	8	0.112764
			8	0.141137	9	0.106681
			10	0.230098	10	0.440660
			BIAS CORR	0.778071		
			VAR COEFF	0.008799		0.011391
			EFFICIENCY	99.67		99.89
			1	0.223791	2	0.055844
			2	0.117102	4	0.104360
			4	0.148058	6	0.150711
			6	0.139157	8	0.147239
12	10	11	8	0.142118	9	0.104546
			10	0.230275	10	0.442309
			BIAS CORR	0.778915		
			VAR COEFF	0.008815		0.011402
			EFFICIENCY	99.49		99.80
			1	0.254962	4	0.142716
			3	0.190091	6	0.150802

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	10	4	6	0.181276	8	0.148464
			8	0.140735	9	0.103732
			10	0.232935	10	0.443971
			BIAS CORR	0.781214		
			VAR COEFF	0.008885		0.011434
			EFFICIENCY	98.70		99.51
12	10	4	1	0.257671	4	0.143721
			3	0.192580	6	0.152003
			6	0.258388	8	0.205207
			10	0.291361	10	0.489676
			BIAS CORR	0.777386		
			VAR COEFF	0.008986		0.011466
			EFFICIENCY	97.60		99.24
12	10	3	1	0.311299	4	0.215041
			5	0.361413	8	0.280426
			10	0.327287	10	0.493437
			BIAS CORR	0.781682		
			VAR COEFF	0.009276		0.011571
			EFFICIENCY	94.54		98.34
12	10	2	1	0.409962	6	0.376825
			8	0.590038	10	0.588202
			BIAS CORR	0.744958		
			VAR COEFF	0.010422		0.011835
			EFFICIENCY	84.15		96.15
12	10	1	6	1.000000	10	0.815936
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.013600
			EFFICIENCY	61.29		83.67
12	9	9	1	0.229019	1	0.018437
			2	0.087592	2	0.029089
			3	0.082259	3	0.055073
			4	0.063330	4	0.035103
			5	0.083254	5	0.097356
			6	0.058904	6	0.057174
			7	0.076840	7	0.109920
			8	0.067358	8	0.102723

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			9	0.251440	9	0.552880
			BIAS CORR	0.753021		
			VAR COEFF	0.009017		0.012665
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.45		74.74
12	9	9	1	0.229339	1	0.018464
			2	0.086968	2	0.028945
			3	0.083900	3	0.070730
			4	0.061398	5	0.116716
			5	0.113008	6	0.055743
			7	0.107452	7	0.112498
			8	0.064200	8	0.099558
			9	0.253735	9	0.554716
			BIAS CORR	0.753073		
			VAR COEFF	0.009024		0.012669
			EFFICIENCY	99.92		99.97
12	9	7	1	0.229734	2	0.042150
			2	0.086096	3	0.070715
			3	0.086964	5	0.116530
			4	0.056276	6	0.055966
			5	0.116788	7	0.112287
			7	0.140707	8	0.099784
			9	0.283435	9	0.554800
			BIAS CORR	0.752681		
			VAR COEFF	0.009034		0.012673
			EFFICIENCY	99.80		99.94
12	9	5	1	0.229972	2	0.041606
			2	0.086035	3	0.071406
			3	0.112063	5	0.143882
			5	0.146720	7	0.141265
			7	0.141156	8	0.096953
			9	0.284053	9	0.556990
			BIAS CORR	0.753091		
			VAR COEFF	0.009043		0.012679
			EFFICIENCY	99.71		99.89
12	9	3	1	0.259624	3	0.105116
			3	0.165876	5	0.143849

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

A	M	L	I	LOCATION	I	SCALE
			5	0.147087	7	0.142432
			7	0.142193	8	0.097471
			9	0.285221	9	0.558198
			BIAS CORR	0.755405		
			VAR COEFF	0.009082		0.012691
			EFFICIENCY	99.28		99.79
12	9	4	1	0.262303	3	0.105262
			3	0.200174	5	0.145458
			6	0.217801	7	0.191940
			9	0.319723	9	0.602911
			BIAS CORR	0.754369		
			VAR COEFF	0.009166		0.012714
			EFFICIENCY	98.36		99.62
12	9	5	1	0.313665	5	0.222778
			5	0.327781	7	0.192958
			9	0.358554	9	0.607153
			BIAS CORR	0.761286		
			VAR COEFF	0.009374		0.012806
			EFFICIENCY	96.19		98.90
12	9	6	1	0.409962	5	0.321641
			3	0.590038	9	0.701138
			BIAS CORR	0.744958		
			VAR COEFF	0.010422		0.012977
			EFFICIENCY	86.52		97.60
12	9	1	5	1.000000	9	0.936396
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.014171
			EFFICIENCY	63.01		89.37
12	8	4	1	0.236302	1	0.019553
			2	0.094087	2	0.041231
			3	0.073243	3	0.033773
			4	0.087504	4	0.092397
			5	0.059846	5	0.046852
			6	0.080650	6	0.111828
			7	0.068121	7	0.096789
			8	0.300247	8	0.668912

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

\* SHAPE PARAMETER = 3.00

N	M	L	J	LOCATION	J	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
12	9		1	0.725348		
				0.009324		0.014285
				100.00		100.00
				90.37		66.27
			1	0.236471	1	0.019527
			2	0.094545	2	0.054918
			3	0.072536	4	0.111788
			4	0.116053	5	0.046218
			6	0.112616	6	0.113198
			7	0.064965	7	0.094687
			8	0.302865	8	0.670389
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
12	9	0	1	0.236496	2	0.068868
			2	0.095603	4	0.111834
			3	0.070016	5	0.046083
			4	0.118398	6	0.113443
			6	0.145142	7	0.094460
			8	0.334345	8	0.670712
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
						0.014273
						99.94
			1	0.236875	2	0.068888
			2	0.124176	4	0.133448
			4	0.158143	6	0.138009
			6	0.145304	7	0.092055
			8	0.335502	8	0.672736
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
12	8	4	1	0.271032	2	0.068692
			3	0.201446	4	0.134713
			6	0.191046	6	0.184141
			8	0.315476	8	0.717786
				BIAS CORR		
				VAR COEFF		
						0.014317

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	LOCATION		SCALE	
			I		I	
				EFFICIENCY		EFFICIENCY
				98.75		99.78
12	5	3	1	0.298061	4	0.182009
			4	0.288504	6	0.184348
			3	0.413435	8	0.720433
				BIAS CORR		
				0.730276		
				VAR COEFF		0.014366
				EFFICIENCY		99.44
12	6	4	1	0.409962	4	0.269004
			5	0.590038	8	0.816615
				BIAS CORR		
				0.744958		
				VAR COEFF		0.014521
				EFFICIENCY		98.38
12	9	1	6	1.000000	8	1.008518
				BIAS CORR		
				0.851146		
				VAR COEFF		0.015350
				EFFICIENCY		93.06
12	7	7	1	0.246762	1	0.024213
			2	0.092929	2	0.034939
			3	0.090405	3	0.073452
			4	0.068084	4	0.049472
			5	0.083840	5	0.106576
			6	0.070407	6	0.094972
			7	0.347573	7	0.789969
				BIAS CORR		
				0.695336		
				VAR COEFF		0.016395
				EFFICIENCY		100.00
				EFF(M/N)		57.78
12	7	6	1	0.247183	1	0.035809
			2	0.092257	3	0.093144
			3	0.092205	4	0.049291
			4	0.066111	5	0.107065
			5	0.119185	6	0.094079
			7	0.383060	7	0.790895
				BIAS CORR		
				0.695220		
				VAR COEFF		0.016391
				EFFICIENCY		99.89
						99.95



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
NORMAL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	7	5	1	0.247507	1	0.035798
			2	0.092201	3	0.117013
			3	0.121714	5	0.134062
			5	0.154367	6	0.092360
			7	0.384210	7	0.792594
			BIAS CORR	0.695554		
			VAR COEFF	0.009730		0.016398
			EFFICIENCY	99.77		99.92
12	7	4	1	0.279371	1	0.039691
			2	0.179443	3	0.117556
			5	0.154794	5	0.179038
			7	0.386393	7	0.839511
			BIAS CORR	0.697781		
			VAR COEFF	0.009776		0.016416
			EFFICIENCY	99.30		99.81
12	7	3	1	0.282448	3	0.133249
			3	0.246692	5	0.179090
			7	0.470859	7	0.840526
			BIAS CORR	0.697887		
			VAR COEFF	0.009891		0.016436
			EFFICIENCY	98.15		99.69
12	7	2	1	0.393237	4	0.245023
			7	0.606763	7	0.898181
			BIAS CORR	0.711041		
			VAR COEFF	0.010494		0.016579
			EFFICIENCY	92.51		98.83
12	7	1	5	1.000000	7	1.066491
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.017149
			EFFICIENCY	67.94		95.55
12	6	6	1	0.250280	1	0.026029
			2	0.102279	2	0.052735
			3	0.093088	3	0.055782
			4	0.086210	4	0.095259
			5	0.076578	5	0.095791

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			6	0.393565	6	0.922001
			BIAS CORR	0.662485		
			VAR COEFF	0.010197		0.019208
			EFFICIENCY	100.00		100.00
			EFF(M/N)	82.63		49.29
12	6		1	0.258519	2	0.071409
			2	0.102830	3	0.055939
			3	0.082392	4	0.095339
			4	0.122612	5	0.095648
			6	0.433648	6	0.922477
			BIAS CORR	0.662483		
			VAR COEFF	0.010211		0.019215
			EFFICIENCY	99.87		99.96
12	6	4	1	0.259055	2	0.094081
			2	0.136504	4	0.127339
			4	0.169427	5	0.094827
			6	0.435014	6	0.923697
			BIAS CORR	0.663194		
			VAR COEFF	0.010235		0.019226
			EFFICIENCY	99.64		99.90
12	6		1	0.295775	2	0.094195
			3	0.221043	4	0.171837
			6	0.483182	6	0.973669
			BIAS CORR	0.664919		
			VAR COEFF	0.010323		0.019247
			EFFICIENCY	98.78		99.79
12	6	2	1	0.381699	4	0.236969
			6	0.618301	6	0.977950
			BIAS CORR	0.675144		
			VAR COEFF	0.010747		0.019339
			EFFICIENCY	94.88		99.32
12	6	1	6	1.000000	6	1.174886
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.019753
			EFFICIENCY	71.26		97.24

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	5	5	1	0.275075	1	0.032964
			2	0.105251	2	0.054574
			3	0.094161	3	0.083214
			4	0.084921	4	0.097225
			5	0.440592	5	1.072194
		BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)		0.625974		
				0.010838		0.023203
				100.00		100.00
				77.74		40.80
12	5	4	1	0.275600	2	0.078165
			2	0.105230	3	0.083178
			3	0.132107	4	0.097327
			5	0.487063	5	1.072652
		BIAS CORR VAR COEFF EFFICIENCY		0.626138		
				0.010857		0.023216
				99.82		99.95
12	5	3	1	0.312177	2	0.111913
			3	0.198113	4	0.144943
			5	0.489710	5	1.073352
		BIAS CORR VAR COEFF EFFICIENCY		0.628230		
				0.010916		0.023240
				99.28		99.84
12	5	2	1	0.374602	3	0.189916
			5	0.625398	5	1.128109
		BIAS CORR VAR COEFF EFFICIENCY		0.634617		
				0.011197		0.023284
				96.79		99.65
12	5	1	5	1.000000	5	1.280227
				0.781111		
				0.014390		0.023585
				75.32		98.38
		BIAS CORR				
12	4	4	1	0.296808	1	0.039862
			2	0.114777	2	0.071661
			3	0.098970	3	0.096975
			4	0.489445	4	1.252488
			BIAS CORR	0.584479		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.029292
				EFFICIENCY		100.00
				EFF(M/N)		32.32
12	4		1	0.297598	2	0.100199
			2	0.155297	3	0.096939
			4	0.547104	4	1.253208
				BIAS CORR		
				VAR COEFF		0.029310
				EFFICIENCY		99.94
12	4	2	1	0.371617	2	0.139551
			4	0.628383	4	1.309587
				BIAS CORR		
				VAR COEFF		0.029343
				EFFICIENCY		99.83
12	4	1	4	1.000000	4	1.413711
				BIAS CORR		
				VAR COEFF		0.029545
				EFFICIENCY		99.14
12	3	3	1	0.329445	1	0.052963
			2	0.126167	2	0.092849
			3	0.544388	3	1.486995
				BIAS CORR		
				VAR COEFF		0.039687
				EFFICIENCY		100.00
				EFF(M/N)		25.85
12	2	2	1	0.373698	2	0.130790
			3	0.626302	3	1.489007
				BIAS CORR		
				VAR COEFF		0.039719
				EFFICIENCY		99.92
12	3	1	3	1.000000	3	1.598339
				BIAS CORR		
				VAR COEFF		0.039838
				EFFICIENCY		99.62

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	0.383705	1	0.077301
			2	0.616295	2	1.837580
				BIAS CORR		
				0.474934		
				VAR COEFF		0.061343
				0.015215		
				EFFICIENCY		100.00
12	2	1		EFF(M/N)		15.43
				55.38		
			2	1.000000	2	1.894708
				BIAS CORR		
				0.527786		
				VAR COEFF		0.061412
				0.017107		
12	1	1		EFFICIENCY		99.89
				88.94		
			1	1.000000	1	2.563809
				BIAS CORR		
				0.390045		
				VAR COEFF		0.132093
				0.020096		
13	13	13		EFFICIENCY		100.00
				100.00		
				EFF(M/N)		7.17
				41.93		
			1	0.206577	1	0.011856
			2	0.078884	2	0.020970
			3	0.068670	3	0.029201
			4	0.063324	4	0.036872
			5	0.062275	5	0.045040
			6	0.059820	6	0.052741
			7	0.061493	7	0.061778
			8	0.060257	8	0.070596
			9	0.062801	9	0.081454
			10	0.063192	10	0.093252
			11	0.066056	11	0.108545
			12	0.069087	12	0.129506
			13	0.077563	13	0.182967
				BIAS CORR		
				0.823056		
				VAR COEFF		0.008725
13	12	12		0.007765		
				100.00		100.00
				EFFICIENCY		100.00
				100.00		
			1	0.207071	2	0.029509
			2	0.076917	3	0.029073
13	12	12	3	0.074296	4	0.037097
			4	0.054208	5	0.044694
			5	0.096907	6	0.053186

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			7	0.096638	7	0.061287
			8	0.047117	8	0.071104
			9	0.079541	9	0.081051
			10	0.048486	10	0.093539
			11	0.074220	11	0.108436
			12	0.066676	12	0.129565
			13	0.077921	13	0.182994
			BIAS CORR	0.823085		
			VAR COEFF	0.007771		0.008726
			EFFICIENCY	99.92		99.98
12	13	11	1	0.207442	2	0.041030
			2	0.075112	4	0.055775
			3	0.080199	5	0.040628
			4	0.043554	6	0.058192
			5	0.104587	7	0.055083
			7	0.119651	8	0.073355
			9	0.104823	9	0.074293
			10	0.043482	10	0.098208
			11	0.077498	11	0.106318
			12	0.065521	12	0.130191
			13	0.078131	13	0.182978
			BIAS CORR	0.822936		
			VAR COEFF	0.007775		0.008729
			EFFICIENCY	99.87		99.95
12	13	10	1	0.206214	2	0.040741
			2	0.083647	4	0.075196
			3	0.054685	6	0.082778
			4	0.103670	7	0.046975
			6	0.122549	8	0.089563
			8	0.122794	9	0.061414
			10	0.103456	10	0.109551
			11	0.052324	11	0.101125
			12	0.073532	12	0.131719
			13	0.077130	13	0.182865
			BIAS CORR	0.822911		
			VAR COEFF	0.007778		0.008732
			EFFICIENCY	99.83		99.92
12	13	9	1	0.207790	2	0.040311

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
13	13	8	2	0.074144	4	0.076619
			3	0.099421	6	0.105794
			5	0.129559	8	0.114774
			7	0.119893	9	0.055534
			9	0.130091	10	0.115104
			11	0.096134	11	0.096889
			12	0.064659	12	0.133259
			13	0.078310	13	0.182744
			BIAS CORR	0.822803		
			VAR COEFF	0.007783		0.008736
			EFFICIENCY	99.77		99.87
			1	0.206633	3	0.069238
			2	0.105522	5	0.093296
13	13	7	4	0.134830	7	0.121870
			6	0.124052	9	0.130783
			8	0.124131	10	0.070440
			10	0.134437	11	0.121454
			12	0.093174	12	0.125760
			13	0.077221	13	0.183842
			BIAS CORR	0.822566		
			VAR COEFF	0.007798		0.008742
			EFFICIENCY	99.58		99.90
			1	0.233873	3	0.068118
			3	0.146017	5	0.096578
			5	0.130414	7	0.122288
			7	0.122212	9	0.168841
			9	0.130943	11	0.151801
			11	0.139781	12	0.125609
			13	0.096759	13	0.184170
			BIAS CORR	0.821712		
			VAR COEFF	0.007839		0.008756
			EFFICIENCY	99.06		99.65
13	13	6	1	0.235693	5	0.147082
			3	0.145934	7	0.121570
			5	0.191295	9	0.170336
			9	0.189876	11	0.152813
			11	0.139651	12	0.125602
			13	0.097551	13	0.184966

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.821084		
			VAR COEFF	0.007897		0.008791
			EFFICIENCY	98.33		99.24
13	13		1	0.238276	4	0.155975
			3	0.202866	8	0.199954
			7	0.266614	10	0.197478
			11	0.193785	12	0.172143
			13	0.098459	13	0.184763
			BIAS CORR	0.819891		
			VAR COEFF	0.007989		0.008841
			EFFICIENCY	97.20		98.69
17	13	4	1	0.264719	6	0.266110
			4	0.251065	10	0.265187
			8	0.276830	12	0.173327
			12	0.207387	13	0.186929
			BIAS CORR	0.801215		
			VAR COEFF	0.008165		0.008948
			EFFICIENCY	95.10		97.51
17	13	5	1	0.297454	7	0.328046
			5	0.372600	11	0.314790
			11	0.329946	13	0.228734
			BIAS CORR	0.781992		
			VAR COEFF	0.008551		0.009171
			EFFICIENCY	90.81		95.13
13	13	2	1	0.393629	9	0.551551
			8	0.606371	13	0.303260
			BIAS CORR	0.725651		
			VAR COEFF	0.009692		0.009928
			EFFICIENCY	80.12		87.88
17	13	1	5	1.000000	11	0.251677
			BIAS CORR	0.821573		
			VAR COEFF	0.013261		0.012584
			EFFICIENCY	58.56		69.33
12	12	12	1	0.209790	1	0.012704
			2	0.080500	2	0.023647



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			3	0.068507	3	0.028498
			4	0.066939	4	0.046529
			5	0.059230	5	0.038664
			6	0.065562	6	0.069215
			7	0.057566	7	0.054614
			8	0.065459	8	0.087186
			9	0.060257	9	0.079360
			10	0.066281	10	0.106304
			11	0.065590	11	0.113817
			12	0.134321	12	0.301732
			BIAS CORR	0.802860		
			VAR COEFF	0.007888		0.009454
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.44		92.28
13	12	11	1	0.209560	2	0.032798
			2	0.082905	3	0.028361
			3	0.061798	4	0.046773
			4	0.078107	5	0.038293
			5	0.047453	6	0.069694
			6	0.099735	7	0.054066
			8	0.099092	8	0.087734
			9	0.048484	9	0.078927
			10	0.077637	10	0.106614
			11	0.058820	11	0.113701
			12	0.136409	12	0.301822
			BIAS CORR	0.802866		
			VAR COEFF	0.007893		0.009456
			EFFICIENCY	99.93		99.98
13	12	10	1	0.209559	2	0.044037
			2	0.083764	4	0.064993
			3	0.058587	5	0.034326
			4	0.102353	6	0.074576
			6	0.106369	7	0.046035
			7	0.037899	8	0.094805
			8	0.106720	9	0.072335
			10	0.101612	10	0.111167
			11	0.056043	11	0.111635
			12	0.137095	12	0.302417
			BIAS CORR	0.802812		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
13	12	9		VAR COEFF		0.007897
				EFFICIENCY		99.88
			1	0.209425	2	0.043791
			2	0.085009	4	0.081398
			3	0.055225	6	0.095342
			4	0.105282	7	0.041187
			6	0.124775	8	0.104268
			8	0.124756	9	0.061453
			10	0.104740	10	0.119901
			11	0.052598	11	0.107245
			12	0.138182	12	0.303620
				BIAS CORR		
				VAR COEFF		0.007900
				EFFICIENCY		99.85
13	12	9	1	0.211127	2	0.043412
			2	0.075403	4	0.082642
			3	0.101126	6	0.115517
			5	0.131534	8	0.125365
			7	0.121785	9	0.056298
			9	0.132044	10	0.125642
			11	0.097277	11	0.103525
			12	0.130204	12	0.304870
				BIAS CORR		
				VAR COEFF		0.007908
				EFFICIENCY		99.74
13	12	7	1	0.209855	2	0.042497
			2	0.107104	4	0.084290
			4	0.136752	6	0.117154
			6	0.126291	8	0.154787
			8	0.126110	10	0.152020
			10	0.135886	11	0.102310
			12	0.158003	12	0.305596
				BIAS CORR		
				VAR COEFF		0.007920
				EFFICIENCY		99.60
13	12	6	1	0.211546	4	0.113731
			2	0.107347	6	0.116908

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			4	0.195500	8	0.155453
			8	0.191215	10	0.152974
			10	0.134679	11	0.101632
			12	0.159715	12	0.306336
			BIAS CORR	0.802489		
			VAR COEFF	(.00798)		0.009488
			EFFICIENCY	98.81		99.64
13	12	5	1	0.240053	4	0.113521
			3	0.149655	6	0.120786
			5	0.193069	8	0.155156
			9	0.239901	10	0.213330
			12	0.101722	12	0.345993
			BIAS CORR	0.800231		
			VAR COEFF	0.008043		0.009528
			EFFICIENCY	98.97		99.73
13	12	4	1	0.264719	4	0.168859
			4	0.251062	8	0.217282
			8	0.276030	10	0.212437
			12	0.237387	12	0.345517
			BIAS CORR	0.801215		
			VAR COEFF	0.008165		0.009585
			EFFICIENCY	98.61		98.63
13	12	3	1	0.297454	6	0.289152
			9	0.377600	10	0.286131
			11	0.329946	12	0.391911
			BIAS CORR	0.781992		
			VAR COEFF	0.008991		0.009710
			EFFICIENCY	92.25		97.37
13	12	2	1	0.193829	8	0.457409
			8	0.606171	12	0.441702
			BIAS CORR	0.729691		
			VAR COEFF	0.009692		0.013151
			EFFICIENCY	81.19		93.13
13	12	1	4	1.000000	11	0.451677
			BIAS CORR	0.821373		
			VAR COEFF	0.013261		0.012984

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

P	M	L	I	LOCATION	J	SCALE
				59.48		75.13
				EFFICIENCY		
11	11	11	1	0.214345	1	0.014581
			2	0.080018	2	0.020725
			3	0.077067	3	0.048330
			4	0.052849	4	0.013662
			5	0.083744	5	0.098213
			6	0.040387	6	0.011130
			7	0.083491	7	0.114091
			8	0.046072	8	0.045380
			9	0.077434	9	0.124948
			10	0.056120	10	0.088373
			11	0.188773	11	0.417015
				BIAS CORR		
				0.781118		0.010315
				VAR COEFF		100.00
				0.008048		84.56
				EFFICIENCY		
				100.00		
				(E/M/N)		
				96.48		
11	11	10	1	0.214640	1	0.014644
			2	0.078701	2	0.020352
			3	0.080773	3	0.047353
			4	0.046857	4	0.011474
			5	0.106844	5	0.104620
			7	0.106924	7	0.125554
			8	0.037425	8	0.042476
			9	0.088542	9	0.124028
			10	0.046313	10	0.089647
			11	0.142977	11	0.418173
				BIAS CORR		
				0.781306		0.010318
				VAR COEFF		100.00
				0.008091		
				EFFICIENCY		
				99.47		
11	11	9	1	0.214916	1	0.014676
			2	0.077264	2	0.020140
			3	0.085437	3	0.054728
			4	0.038440	4	0.111154
			5	0.112408	5	0.127210
			7	0.125182	7	0.039648
			9	0.108611	9	0.131316
			10	0.047384	10	0.083361
			11	0.144888	11	0.419511

TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.781270		
			VAR COEFF	0.008053		0.010319
			EFFICIENCY	99.94		99.99
13	11	5	1	0.215053	1	0.021307
			2	0.077014	3	0.067217
			3	0.102440	5	0.111155
			5	0.133474	7	0.128358
			7	0.125223	8	0.037717
			9	0.113795	9	0.132938
			10	0.035769	10	0.082520
			11	0.197232	11	0.419372
			BIAS CORR	0.781589		
			VAR COEFF	0.008057		0.010321
			EFFICIENCY	99.89		99.98
13	11	7	1	0.215231	1	0.021049
			2	0.076332	3	0.067298
			3	0.102395	5	0.112730
			5	0.135116	7	0.146748
			7	0.125397	8	0.151898
			9	0.133052	10	0.080049
			11	0.212477	11	0.420935
			BIAS CORR	0.781164		
			VAR COEFF	0.008060		0.010323
			EFFICIENCY	99.85		99.95
13	11	6	1	0.241276	3	0.074553
			3	0.150251	5	0.112687
			5	0.135082	7	0.146895
			7	0.126522	8	0.152330
			9	0.134010	10	0.074634
			11	0.212859	11	0.421224
			BIAS CORR	0.783348		
			VAR COEFF	0.008059		0.010330
			EFFICIENCY	99.49		99.39
13	11	4	1	0.241224	3	0.078332
			3	0.150201	5	0.116421
			5	0.135167	7	0.147396
			9	0.145065	9	0.195391

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
11	11	4	11	0.213343	11	0.455730
			BIAS CORR	0.782371		
			VAR COEFF	0.008151		0.010347
			EFFICIENCY	98.73		99.72
12	11	4	1	0.245942	5	0.174580
			3	0.209231	7	0.146660
			7	0.275337	9	0.197216
			11	0.269490	11	0.457785
			BIAS CORR	0.780805		
12	11	3				0.010394
			VAR COEFF	0.008248		99.27
			EFFICIENCY	97.58		
12	11	3	1	0.297454	5	0.246965
			5	0.372600	9	0.268401
			11	0.329946	11	0.460130
			BIAS CORR	0.781992		
			VAR COEFF	0.008551		0.010477
12	11	2				98.48
			EFFICIENCY	94.12		
12	11	2	1	0.393629	7	0.396474
			8	0.606371	11	0.552623
			BIAS CORR	0.725651		
			VAR COEFF	0.009692		0.010760
			EFFICIENCY	83.04		95.89
12	11	1				
			6	1.000000	11	0.851677
			BIAS CORR	0.821573		
			VAR COEFF	0.013261		0.012584
			EFFICIENCY	60.69		81.99
12	10	10	1	0.218776	1	0.014114
			2	0.087654	2	0.036267
			3	0.059183	3	0.006272
			4	0.096219	4	0.114827
			5	0.024415	5	-0.037548
			6	0.105867	6	0.165236
			7	0.030770	7	0.001125
			8	0.084869	8	0.151120
			9	0.044097	9	0.053862
			10	0.243146	10	0.537541

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE	
				BIAS CORR	0.758088		
				VAR COEFF	0.008245	0.011349	
				EFFICIENCY	100.00	100.00	
				EFF(M/N)	94.18	76.88	
13	10	9	1	0.218695	1	0.014112	
			2	0.088286	2	0.036311	
			3	0.057458	3	0.006149	
			4	0.108864	4	0.115025	
			6	0.120362	5	-0.037748	
			7	0.026222	6	0.166582	
			8	0.096590	8	0.151768	
			9	0.036225	9	0.053647	
			10	0.247298	10	0.537673	
				BIAS CORR	0.758334		
	VAR COEFF	0.008246		0.011349			
	EFFICIENCY	99.99		100.00			
13	11	8	1	0.218579	1	0.014101	
			2	0.087231	2	0.038770	
			3	0.054825	4	0.118779	
			4	0.111158	5	-0.038282	
			6	0.133105	6	0.166819	
			8	0.110918	8	0.152536	
			9	0.032597	9	0.052487	
			10	0.249587	10	0.538190	
				BIAS CORR	0.758412		
				VAR COEFF	0.008247		0.011349
	EFFICIENCY	99.97		100.00			
13	10	7	1	0.218509	2	0.048874	
			2	0.090278	4	0.118884	
			3	0.051180	5	-0.038560	
			4	0.114176	6	0.166999	
			6	0.133979	8	0.152792	
			8	0.127453	9	0.052148	
			10	0.264425	10	0.538478	
				BIAS CORR	0.758221		
				VAR COEFF	0.008249		0.011351
				EFFICIENCY	99.94		99.98

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
13	10	5	1	0.218692	2	0.049060
			2	0.110983	4	0.100730
			4	0.143228	6	0.147650
			6	0.133609	8	0.146387
			8	0.129003	9	0.063266
			10	0.264486	10	0.532817
			BIAS CORR	0.758981		
			VAR COEFF	0.008258		0.011354
			EFFICIENCY	99.84		99.96
13	10	5	1	0.220649	2	0.048047
			2	0.112281	4	0.102594
			4	0.142042	6	0.149460
			6	0.202224	8	0.178350
			10	0.322804	10	0.561937
			BIAS CORR	0.756762		
			VAR COEFF	0.008326		0.011363
			EFFICIENCY	99.03		99.88
13	10	4	1	0.252402	4	0.135916
			3	0.178567	6	0.149197
			6	0.244789	8	0.179142
			10	0.324242	10	0.563103
			BIAS CORR	0.759010		
			VAR COEFF	0.008397		0.011385
			EFFICIENCY	98.19		99.68
13	10	3	1	0.279889	4	0.204590
			4	0.327636	8	0.256229
			10	0.392475	10	0.565150
			BIAS CORR	0.758938		
			VAR COEFF	0.008636		0.011473
			EFFICIENCY	95.47		98.92
13	10	2	1	0.393629	6	0.348467
			8	0.606371	10	0.654555
			BIAS CORR	0.725651		
			VAR COEFF	0.007692		0.011637
			EFFICIENCY	85.07		97.52
13	10	1	6	1.000000	10	0.917117



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.821573		
			VAR COEFF	0.013261		0.012926
			EFFICIENCY	62.17		87.80
13	9	9	1	0.226551	1	0.018940
			2	0.080370	2	0.016798
			3	0.094557	3	0.087362
			4	0.030045	4	-0.037121
			5	0.117633	5	0.179274
			6	0.021512	6	-0.024379
			7	0.097025	7	0.157404
			8	0.041133	8	0.045377
			9	0.291174	9	0.647300
			BIAS CORR	0.733190		
			VAR COEFF	0.008487		0.012628
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.50		69.09
12	9	8	1	0.226676	1	0.018825
			2	0.079796	2	0.017459
			3	0.096016	3	0.085726
			4	0.027998	4	-0.034801
			5	0.129145	5	0.166256
			7	0.109183	7	0.143650
			8	0.037295	8	0.049735
			9	0.293891	9	0.644309
			BIAS CORR	0.733338		
			VAR COEFF	0.008488		0.012629
			EFFICIENCY	99.99		99.99
13	9	7	1	0.226783	1	0.024575
			2	0.079444	3	0.096779
			3	0.108580	4	-0.035296
			5	0.144170	5	0.166481
			7	0.112730	7	0.144668
			8	0.030024	8	0.049000
			9	0.298269	9	0.645270
			BIAS CORR	0.733674		
			VAR COEFF	0.008489		0.012631
			EFFICIENCY	99.97		99.98

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
13	9	5	1	0.226985	1	0.024661
			2	0.078377	3	0.081276
			3	0.109346	5	0.147609
			5	0.145337	7	0.140284
			7	0.127363	8	0.057144
			9	0.312592	9	0.640000
			BIAS CORR	0.733554		
			VAR COEFF	0.008491		0.012633
			EFFICIENCY	99.95		99.96
12	9	5	1	0.253751	1	0.024289
			3	0.158499	3	0.081453
			5	0.145321	5	0.149863
			7	0.128521	7	0.168151
			9	0.313908	9	0.667468
			BIAS CORR	0.735708		
			VAR COEFF	0.008522		0.012640
			EFFICIENCY	99.59		99.91
12	9	4	1	0.255759	3	0.095623
			3	0.158467	5	0.149809
			5	0.209429	7	0.168328
			9	0.374345	9	0.667959
			BIAS CORR	0.734605		
			VAR COEFF	0.008586		0.012648
			EFFICIENCY	98.85		99.94
12	9	3	1	0.303452	5	0.221088
			5	0.312628	7	0.167546
			9	0.383920	9	0.672794
			BIAS CORR	0.742141		
			VAR COEFF	0.008751		0.012718
			EFFICIENCY	96.98		99.29
13	9	2	1	0.393629	5	0.304114
			8	0.606371	9	0.756962
			BIAS CORR	0.725651		
			VAR COEFF	0.009692		0.012827
			EFFICIENCY	87.57		98.45
12	9	1	6	1.000000	9	0.982884

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	8	P		BIAS CORR		
				VAR COEFF		0.013779
				EFFICIENCY		91.64
			1	0.232810	1	0.016951
			2	0.095839	2	0.049509
			3	0.056958	3	-0.000664
			4	0.107204	4	0.142510
			5	0.031947	5	-0.015427
			6	0.093864	6	0.145988
			7	0.051972	7	0.060152
12	8	P	8	0.329407	8	0.746455
				BIAS CORR		
				VAR COEFF		0.014261
				EFFICIENCY		100.00
				EFF(M/N)		61.18
			1	0.232770	1	0.016952
			2	0.096299	2	0.049242
			3	0.056003	4	0.142118
			4	0.122698	5	-0.015396
			6	0.111710	6	0.145930
13	8	P	7	0.047769	7	0.060254
			8	0.332750	8	0.746388
				BIAS CORR		
				VAR COEFF		0.014261
				EFFICIENCY		100.00
			1	0.232634	1	0.016997
			2	0.097843	2	0.049220
			3	0.051949	4	0.134935
			4	0.126320	6	0.137376
			5	0.134749	7	0.062218
13	8	P	8	0.356505	8	0.744885
				BIAS CORR		
				VAR COEFF		0.014261
				EFFICIENCY		100.00
			1	0.232822	2	0.061400
			2	0.118860	4	0.134913
			4	0.155811	6	0.137658

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			6	0.134373	7	0.061726
			8	0.358132	8	0.745327
			BIAS CORR	0.706972		
			VAR COEFF	0.008805		0.014264
			EFFICIENCY	99.83		99.97
11	3	4	1	0.234736	2	0.061024
			2	0.119170	4	0.136608
			4	0.218443	6	0.167481
			8	0.427652	8	0.776057
			BIAS CORR	0.706471		
12	4	3	1	0.290200	4	0.179047
			4	0.277310	6	0.167194
			8	0.432490	8	0.778641
			BIAS CORR	0.711337		
			VAR COEFF	0.008971		0.014308
13	5	2	1	0.393629	4	0.256211
			3	0.606371	8	0.867507
			BIAS CORR	0.725651		
			VAR COEFF	0.009692		0.014416
			EFFICIENCY	90.69		98.91
12	4	1	6	1.000000	8	1.052435
			BIAS CORR	0.821572		
			VAR COEFF	0.013261		0.015104
			EFFICIENCY	66.28		94.42
13	7	2	1	0.244659	1	0.024328
			2	0.087064	2	0.024774
			3	0.096036	3	0.090726
			4	0.052623	4	0.016030
			5	0.090229	5	0.124367
			6	0.060531	6	0.074471
			7	0.368859	7	0.854458
			BIAS CORR	0.676651		
			VAR COEFF	0.009164		0.016375

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				84.74		53.28
				EFFICIENCY		
				EFF(M/N)		
13	7	6	1	0.244892	1	0.024345
			2	0.086857	2	0.024693
			3	0.119449	3	0.097835
			5	0.119738	5	0.133327
			6	0.056788	6	0.073321
			7	0.372276	7	0.855448
				BIAS CORR		
				0.677024		
				VAR COEFF		0.016376
				0.009170		
				EFFICIENCY		100.00
				99.93		
13	7	5	1	0.245269	1	0.032492
			2	0.085771	2	0.113174
			3	0.120732	3	0.133801
			5	0.146898	5	0.072014
			7	0.401330	7	0.856532
				BIAS CORR		
				0.676994		
				VAR COEFF		0.016379
				0.009176		
				EFFICIENCY		99.98
				99.86		
13	7	4	1	0.274657	1	0.032306
			3	0.174596	3	0.113869
			5	0.146887	5	0.168239
			7	0.403861	7	0.893567
				BIAS CORR		
				0.679091		
				VAR COEFF		0.016388
				0.009213		
				EFFICIENCY		99.92
				99.46		
13	7	3	1	0.277143	3	0.132752
			3	0.237379	5	0.168185
			7	0.485478	7	0.894512
				BIAS CORR		
				0.679446		
				VAR COEFF		0.016403
				0.009306		
				EFFICIENCY		99.87
				98.47		
13	7	2	1	0.381206	3	0.203232
			7	0.610794	7	0.989690
				BIAS CORR		
				0.692806		
				VAR COEFF		0.016525
				0.009821		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				93.31		99.09
			EFFICIENCY			
13	7	1	6	1.000000	7	1.129117
			BIAS CORR	0.821573		0.016987
			VAR COEFF	0.013261		96.40
			EFFICIENCY	69.10		
13	6	0	1	0.255428	1	0.023746
			2	0.101411	2	0.054516
			3	0.076426	3	0.042978
			4	0.086687	4	0.099790
			5	0.070813	5	0.083660
			6	0.404235	6	0.980121
			BIAS CORR	0.644684		0.019274
			VAR COEFF	0.009636		100.00
			EFFICIENCY	100.00		45.43
			EFF (M/N)	80.38		
13	6	1	1	0.255546	1	0.023718
			2	0.102164	2	0.071822
			3	0.075282	4	0.124586
			4	0.120278	5	0.082540
			6	0.446750	6	0.981458
			BIAS CORR	0.644740		0.019210
			VAR COEFF	0.009647		99.97
			EFFICIENCY	99.89		
13	6	2	1	0.255472	2	0.088940
			2	0.132713	4	0.124662
			4	0.163063	5	0.082293
			6	0.448292	6	0.981905
			BIAS CORR	0.645434		0.019216
			VAR COEFF	0.009665		99.94
			EFFICIENCY	99.70		
13	6	3	1	0.292273	2	0.088948
			3	0.211999	4	0.162864
			6	0.495728	6	1.025654
			BIAS CORR	0.647085		0.019230
			VAR COEFF	0.009748		99.86
			EFFICIENCY	98.85		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

L	N	L	LOCATION		SCALE	
			L		L	
11	6	2	1	0.272570	4	0.224719
			4	0.671477	6	1.029467
			BIAS CORR			
					0.019397	
			VAR CORR		99.97	
11	6	1	1	0.960991	6	1.217177
			4	0.871477		
			BIAS CORR		0.019446	
			VAR CORR		97.7	
11	5	3	1	0.777491	1	0.081691
			2	0.161967	2	0.049816
			3	0.697081	3	0.061197
			4	0.096977	4	0.057177
			5	0.692400	5	1.127069
		2	BIAS CORR			
					0.073761	
			VAR CORR		100.00	
			EFFICIENCY		81.60	
			EFFICIENCY			
11	4	4	1	0.777491	2	0.073761
			2	0.161967	3	0.061096
			3	0.697081	4	0.049816
			4	0.096977	5	1.127069
		3	BIAS CORR			
					0.073761	
			VAR CORR		97.75	
			EFFICIENCY			
			EFFICIENCY			
11	3	5	1	0.806915	2	0.073761
			2	0.161967	3	0.049816
			3	0.697081	4	1.127069
		4	BIAS CORR			
					0.073761	
			VAR CORR		99.97	
			EFFICIENCY			
			EFFICIENCY			
11	2	6	1	0.806915	3	0.172616
			2	0.617274	4	1.127069
			BIAS CORR			
			VAR CORR		0.021766	

TABLE 11  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 12)

SHAPE PARAMETER = 3.00

N	r	i	j	LOCATION		SCALE	
				EFFICIENCY		EFFICIENCY	
11	3	1	5	1.000000	5	1.323067	
				0.798873			
				0.013433		0.023914	
				76.30		48.67	
11	4	2	1	0.274385	1	0.937633	
			2	0.112122	2	0.643347	
			3	0.076647	3	0.040433	
			4	0.447845	4	1.306757	
				0.968907			
				0.011041		0.027773	
				100.00		100.00	
				70.01		74.74	
11	4	7	1	0.274385	7	0.643347	
			2	0.112122	8	0.040433	
			4	0.447845	4	1.306757	
				0.968906			
				0.011120		0.027916	
11	4	7		44.74		44.74	
11	4	7	1	0.264441	7	0.131176	
			4	0.688889	4	1.334471	
				0.972277			
				0.011773		0.027337	
				48.24		44.86	
11	4	1	4	1.000000	4	1.498117	
				0.888889			
				0.013076		0.027401	
				74.74		44.74	
11	3	1	1	0.327024	1	0.609143	
			2	0.123771	2	0.081441	
			3	0.047741	3	1.000000	
				0.921471			
				0.012331		0.027444	
				100.00		100.00	
				62.47		71.46	



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION		SCALE	
				1	2	1	2
11	2	2	1	2.362742	2	0.123751	
			2	2.630094	3	1.941293	
				BIAS CORR			
				VAR CORR		0.037112	
12	2	2	1	2.571317	2	99.73	
			2	0.017407	3		
				BIAS CORR			
				VAR CORR		0.037112	
13	2	2	1	2.723001	2	1.643872	
			2	0.007695	3		
				BIAS CORR			
				VAR CORR		0.037112	
14	2	2	1	0.141187	1	0.073751	
			2	2.618610	2	1.941293	
				BIAS CORR			
				VAR CORR		0.061351	
15	2	2	1	0.014410	1	100.00	
			2	130.00	2	190.00	
				BIAS CORR			
				VAR CORR		190.00	
16	2	2	1	1.900000	2	1.740716	
			2	0.513774	3		
				BIAS CORR			
				VAR CORR		0.061351	
17	2	2	1	0.014410	1	100.00	
			2	130.00	2	190.00	
				BIAS CORR			
				VAR CORR		190.00	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.90

	N	L		LOCATION		SCALE
11	11	11	1	0.162430	1	0.013276
			2	0.077750	2	0.075249
			3	0.073197	3	0.026417
			4	0.077457	4	0.047519
			5	0.073407	5	0.059219
			6	0.074446	6	0.071564
			7	0.074517	7	0.085657
			8	0.083472	8	0.101744
			9	0.084045	9	0.117199
			10	0.076772	10	0.135160
			11	0.115207	11	0.221710
			MEAN CORR	0.804837		
			VAR CORR	0.007264		0.007679
			EFFICIENCY	100.00		100.00
			EFF(M/4)	100.00		100.00
11	11	1	1	0.162996	7	0.089077
			2	0.078454	8	0.084077
			3	0.077407	9	0.087947
			4	0.107947	10	0.095118
			5	0.110137	11	0.111707
			6	0.076491	12	0.088865
			7	0.086787	13	0.101891
			8	0.084714	14	0.121773
			9	0.077760	15	0.140209
			10	0.110338	16	0.221710
			MEAN CORR	0.870633		
			VAR CORR	0.007276		0.007631
			EFFICIENCY	99.84		99.97
11	11	9	1	0.161094	7	0.067504
			2	0.077781	8	0.068667
			3	0.104067	9	0.084951
			4	0.110111	10	0.077088
			5	0.120670	11	0.084057
			6	0.078773	12	0.101716
			7	0.078104	13	0.121117
			8	0.078631	14	0.140491
			9	0.110063	15	0.221667
			MEAN CORR	0.890774		
			VAR CORR	0.007200		0.007616

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

L	M	L	I	LOCATION		SCALE	
				EFFICIENCY		EFFICIENCY	
11	11	8	1	0.163505	2	0.049537	
			2	0.076839	4	0.046037	
			3	0.106737	6	0.103875	
			5	0.150984	7	0.087065	
			7	0.167440	8	0.105806	
			9	0.177830	9	0.119671	
			10	0.095537	10	0.191270	
			11	0.114117	11	0.221973	
			BIAS CORR				
			VAN CORR				0.007647
			EFFICIENCY				99.68
11	11	9	1	0.153484	3	0.088901	
			2	0.107474	5	0.119774	
			4	0.150914	7	0.124176	
			6	0.150664	8	0.097767	
			8	0.176114	9	0.129619	
			10	0.174975	10	0.149601	
			11	0.115845	11	0.2272617	
			BIAS CORR				
			VAN CORR				0.007654
			EFFICIENCY				99.67
11	11	6	1	0.159785	3	0.086464	
			2	0.156664	5	0.126777	
			3	0.152803	7	0.124314	
			4	0.164730	8	0.168777	
			5	0.171497	10	0.149474	
			11	0.144016	11	0.2232798	
			BIAS CORR				
			VAN CORR				0.007380
			EFFICIENCY				98.41
11	11	5	1	0.172041	4	0.167314	
			2	0.187950	7	0.209401	
			3	0.243033	8	0.168567	
			4	0.278714	10	0.151710	
			11	0.144767	11	0.225515	
			BIAS CORR				0.007443

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	P	L	I	LOCATION		SCALE	
11	11	6		VAR COEFF	0.007460		0.007773
				EFFICIENCY	97.38		98.79
			1		0.217923	5	0.226403
			4		0.294772	8	0.292969
			8		0.324333	10	0.202720
			11		0.173372	11	0.226713
		5		BIAS CORR	0.899871		
				VAR COEFF	0.007636		0.007809
				EFFICIENCY	93.14		97.74
11	11	5	1		0.268191	9	0.282616
			6		0.427202	9	0.391694
			10		0.309647	11	0.276670
				BIAS CORR	0.879084		
				VAR COEFF	0.008049		0.007472
				EFFICIENCY	90.30		99.49
		4	3		0.488836	8	0.337637
			7		0.511164	11	0.332460
				BIAS CORR	0.903795		
				VAR COEFF	0.009060		0.008917
				EFFICIENCY	80.18		87.16
11	11	4	4		1.000000	9	0.847292
				BIAS CORR	0.900143		
				VAR COEFF	0.011711		0.010931
				EFFICIENCY	40.99		69.78
		3	1		0.146782	1	0.014561
			2		0.080104	2	0.071448
			3		0.074781	3	0.034326
			4		0.075200	4	0.081479
			5		0.074468	5	0.062277
11	13	3	6		0.074367	6	0.081672
			7		0.080338	7	0.091410
			8		0.089941	8	0.112601
			9		0.090881	9	0.132498
			10		0.147499	10	0.337274
		2		BIAS CORR	0.844696		
				VAR COEFF	0.007498		0.008379

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	I	I	LOCATION		SCALE	
				100.00	100.00	100.00	100.00
				97.60		90.84	
11	10	9	1	0.166915	2	0.038744	
			2	0.080614	3	0.039789	
			3	0.074067	4	0.054020	
			4	0.110552	5	0.062189	
			5	0.118842	6	0.081776	
			7	0.077800	7	0.091500	
			8	0.099327	8	0.112721	
			9	0.088382	9	0.132458	
			10	0.193497	10	0.357398	
			BIAS CORR	0.064885			
			VAR COEFF	0.007470		0.008421	
			EFFICIENCY	99.85		99.97	
11	10	8	1	0.167070	1	0.054326	
			2	0.081903	4	0.076809	
			3	0.072087	5	0.081556	
			4	0.112940	6	0.081061	
			5	0.154486	7	0.084840	
			6	0.126584	8	0.114201	
			7	0.087521	9	0.131701	
			10	0.194708	10	0.357771	
			BIAS CORR	0.064673			
			VAR COEFF	0.007482		0.008436	
			EFFICIENCY	99.88		99.91	
11	10	7	1	0.167387	2	0.054365	
			2	0.117320	4	0.105577	
			3	0.154018	6	0.115645	
			4	0.150727	7	0.081744	
			5	0.127765	8	0.114179	
			6	0.086409	9	0.130012	
			10	0.194967	10	0.356715	
			BIAS CORR	0.064580			
			VAR COEFF	0.007477		0.008413	
			EFFICIENCY	99.89		99.92	
11	10	6	1	0.167844	2	0.054776	
			2	0.110482	4	0.106474	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
11	10	1	4	0.154874	6	0.160383
			6	0.159618	8	0.158997
			8	0.177923	9	0.129159
			10	0.229754	10	0.359839
			BIAS CORR	0.864108		
			VAR COEFF	0.007522		0.008429
			EFFICIENCY	99.15		99.63
			1	0.195507	3	0.095982
			3	0.191547	5	0.132445
			6	0.203229	7	0.193376
11	10	2	8	0.178088	9	0.184622
			10	0.231629	10	0.358141
			BIAS CORR	0.866709		
			VAR COEFF	0.007584		0.008457
			EFFICIENCY	98.34		99.30
			1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
			BIAS CORR	0.867295		
11	10	3	VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
			1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
			BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
			1	0.220100	4	0.146046
11	10	4	4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
			BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
			1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
11	10	5	BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
			1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
			BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
11	10	6	1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
			BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
			1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
11	10	7	BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
			1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
			BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
11	10	8	1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
			BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
			1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
11	10	9	BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
			1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
			BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
11	10	10	1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916
			BIAS CORR	0.867295		
			VAR COEFF	0.007704		0.008511
			EFFICIENCY	96.81		98.48
			1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413916

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION		SCALE	
				EFFICIENCY	62.62	EFFICIENCY	76.81
11	9	9	1	0.172539	1	0.016344	
			2	0.082277	2	0.029948	
			3	0.079401	3	0.047872	
			4	0.073087	4	0.050700	
			5	0.061367	5	0.081992	
			6	0.071834	6	0.078344	
			7	0.086571	7	0.109916	
			8	0.086578	8	0.129617	
			9	0.260346	9	0.480456	
			BIAS CORR		0.007715		0.009349
			VAR CORR		100.00		100.00
			EFFICIENCY		94.14		81.60
11	9	8	1	0.172905	2	0.042350	
			2	0.081740	3	0.047814	
			3	0.080997	4	0.050749	
			4	0.071346	5	0.081992	
			5	0.121490	6	0.078344	
			6	0.125069	7	0.108799	
			7	0.086592	8	0.129754	
			8	0.261906	9	0.480456	
			BIAS CORR		0.007730		0.009352
			VAR CORR		99.97		99.97
			EFFICIENCY		99.97		99.97
11	9	7	1	0.173507	2	0.041991	
			2	0.081661	3	0.070214	
			3	0.112990	4	0.109846	
			4	0.159453	5	0.077091	
			5	0.127529	6	0.111250	
			6	0.091363	7	0.114601	
			7	0.264927	8	0.481992	
			BIAS CORR		0.007730		0.007730
			VAR CORR		99.97		99.97
			EFFICIENCY		99.97		99.97
11	9	6	1	0.173687	2	0.106807	
			2	0.091159	3	0.119360	

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

				LOCATION		SCALE
			3	0.113250	6	0.076127
			5	0.160777	7	0.112551
			7	0.171133	8	0.117646
			9	0.300037	9	0.482916
		BIAS CORR		0.837471		
		VAR COEFF		0.007754		0.009370
		EFFICIENCY		99.49		99.77
11	9		1	0.200196	3	0.105120
			3	0.169116	5	0.147602
			5	0.161306	7	0.151129
			7	0.172166	8	0.119760
			9	0.301216	9	0.484649
		BIAS CORR		0.839860		
		VAR COEFF		0.007788		0.009381
		EFFICIENCY		99.06		99.65
11	7		1	0.207723	3	0.109449
			3	0.209663	5	0.149961
			5	0.299767	7	0.211161
			7	0.141392	9	0.537117
		BIAS CORR		0.818990		
		VAR COEFF		0.007877		0.009411
		EFFICIENCY		97.94		97.32
11	5		1	0.290978	4	0.197128
			3	0.362569	7	0.256374
			5	0.386493	9	0.361077
		BIAS CORR		0.869873		
		VAR COEFF		0.008097		0.009459
		EFFICIENCY		95.27		98.92
11	4		3	0.489836	5	0.34461
			5	0.911164	7	0.649731
		BIAS CORR		0.903755		
		VAR COEFF		0.007060		0.009695
		EFFICIENCY		89.15		96.41
11	3		6	1.000000	9	0.899758
		BIAS CORR		0.900143		
		VAR COEFF		0.011911		0.010932



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	J	LOCATION	J	SCALE
				EFFICIENCY		EFFICIENCY
				64.77		65.31
11	8	0	1	0.179563	1	0.017952
			2	0.087391	2	0.027079
			3	0.076840	3	0.042209
			4	0.087217	4	0.079276
			5	0.073315	5	0.065402
			6	0.088824	6	0.107495
			7	0.084384	7	0.111219
			8	0.327466	8	0.100047
				BIAS CORR		
				0.000095		
				VAR CORR		0.010547
				0.000059		
				EFFICIENCY		100.00
				EFF (M/N)		72.33
11	8	2	1	0.179721	2	0.050379
			2	0.087079	3	0.042165
			3	0.076173	4	0.079339
			4	0.121999	5	0.065797
			6	0.127672	6	0.108195
			7	0.081925	7	0.111090
			8	0.324640	8	0.090331
				BIAS CORR		
				0.000075		
				VAR CORR		0.010591
				0.000091		
				EFFICIENCY		99.90
11	9	0	1	0.179700	2	0.067100
			2	0.084015	4	0.103701
			3	0.076107	5	0.064672
			4	0.124062	6	0.100952
			6	0.167429	7	0.109371
			8	0.163663	8	0.091625
				BIAS CORR		
				0.000773		
				VAR CORR		0.010556
				0.000064		
				EFFICIENCY		99.91
11	9	2	1	0.180727	2	0.067140
			2	0.118663	4	0.134019
			4	0.165720	6	0.143757
			6	0.167889	7	0.107219
			8	0.164688	8	0.093729

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

I	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.809618	
				VAR CORR	0.008082	0.010565
				EFFICIENCY	99.47	99.83
11	1	4	1	0.210307	2	0.067069
			3	0.209276	4	0.135144
			5	0.217464	6	0.198456
			7	0.367003	8	0.655338
				BIAS CORR	0.811855	
				VAR CORR	0.008156	0.010559
				EFFICIENCY	99.57	99.60
11	3	2	1	0.236224	4	0.182675
			4	0.304022	6	0.198949
			7	0.454744	8	0.658147
				BIAS CORR	0.813988	
				VAR CORR	0.008299	0.010633
				EFFICIENCY	96.87	99.19
11	5	1	2	0.409610	5	0.308448
			8	0.990396	8	0.717591
				BIAS CORR	0.853391	
				VAR CORR	0.009088	0.010795
				EFFICIENCY	88.46	97.70
11	7	1	4	1.000000	8	0.965915
				BIAS CORR	0.999143	
				VAR CORR	0.011911	0.011659
				EFFICIENCY	67.90	90.97
11	7	3	1	0.189163	1	0.021441
			2	0.088678	2	0.035977
			3	0.089974	3	0.067123
			4	0.076154	4	0.059426
			5	0.091409	5	0.104174
			6	0.083454	6	0.124793
			7	0.380718	7	0.126121
				BIAS CORR	0.777726	
				VAR CORR	0.008451	0.011111
				EFFICIENCY	100.00	100.00
				EFF(7/5)	82.76	63.06

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
11	7	6	1	0.189597	2	0.051856
			2	0.088064	3	0.067085
			3	0.091694	4	0.059489
			4	0.074340	5	0.104071
			5	0.133516	6	0.105027
			7	0.422789	7	0.720923
			BIAS CORR	0.777565		
			VAR COEFF	0.009465		0.012106
			EFFICIENCY	99.84		99.95
11	7	6	1	0.189921	2	0.051742
			2	0.088014	3	0.093313
			3	0.124567	5	0.136775
			5	0.173513	6	0.103414
			7	0.423905	7	0.722695
			BIAS CORR	0.777948		
			VAR COEFF	0.008478		0.012115
			EFFICIENCY	99.58		99.80
11	7	4	1	0.218793	3	0.136040
			3	0.180883	5	0.137416
			5	0.174141	6	0.102291
			7	0.420184	7	0.724505
			BIAS CORR	0.780285		
			VAR COEFF	0.008518		0.012133
			EFFICIENCY	97.71		99.74
11	7	2	1	0.221937	3	0.136531
			3	0.256046	5	0.187513
			7	0.522017	7	0.776221
			BIAS CORR	0.780669		
			VAR COEFF	0.009649		0.012154
			EFFICIENCY	97.71		99.57
11	7	2	1	0.328867	4	0.252575
			7	0.671133	7	0.835275
			BIAS CORR	0.797603		
			VAR COEFF	0.009251		0.012276
			EFFICIENCY	91.34		98.58
11	7	1	6	1.000000	7	1.034963

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.900143		
				0.011911		0.012828
				70.95		94.34
11	6	5	1	0.200303	1	0.023673
			2	0.097786	2	0.049739
			3	0.085860	3	0.058370
			4	0.092942	4	0.094826
			5	0.087222	5	0.101486
			6	0.435883	6	0.847379
				BIAS CORR		
				0.743630		
				VAR COEFF		0.014195
				EFFICIENCY		100.00
				EFF(M/N)		53.74
11	6	4	1	0.200553	2	0.067276
			2	0.098364	3	0.058326
			3	0.085180	4	0.094907
			4	0.134270	5	0.101371
			6	0.481633	6	0.847860
				BIAS CORR		
				0.743643		
				VAR COEFF		0.014201
				EFFICIENCY		99.95
11	6	3	1	0.201002	2	0.090438
			2	0.132482	4	0.128680
			4	0.183341	5	0.100596
			6	0.483175	6	0.849151
				BIAS CORR		
				0.744461		
				VAR COEFF		0.014212
				EFFICIENCY		99.88
11	6	2	1	0.234437	2	0.090569
			3	0.228749	4	0.175782
			6	0.536815	6	0.902273
				BIAS CORR		
				0.746442		
				VAR COEFF		0.014234
				EFFICIENCY		99.73
11	6	1	1	0.316980	4	0.240298
			6	0.683020	6	0.907007

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.758567		
				0.009527		0.014315
				94.26		99.16
11	6	1	6	1.000000	6	1.110934
				BIAS CORR		
				0.900143		
				VAR COEFF		0.014700
				0.011911		96.55
				EFFICIENCY		
				75.39		
11	5	5	1	0.216403	1	0.029656
			2	0.107122	2	0.052966
			3	0.098106	3	0.082673
			4	0.093347	4	0.099736
			5	0.490022	5	0.986270
				BIAS CORR		
				0.705694		
				VAR COEFF		0.017155
				0.009681		100.00
				EFFICIENCY		100.00
				EFF(M/N)		44.44
11	5		1	0.216906	2	0.074940
			2	0.102109	3	0.062634
			3	0.139436	4	0.099840
			4	0.541549	5	0.966755
				BIAS CORR		
				0.705920		
				VAR COEFF		0.017176
				0.009702		99.94
				EFFICIENCY		
				99.78		
11	5	3	1	0.250592	2	0.107794
			3	0.204914	4	0.147730
			5	0.544494	5	0.987567
				BIAS CORR		
				0.709199		
				VAR COEFF		0.017197
				0.009755		99.81
				EFFICIENCY		
				99.23		
11	5	2	1	0.310426	3	0.183585
			5	0.689574	5	1.044198
				BIAS CORR		
				0.715736		
				VAR COEFF		0.017237
				0.010032		99.58
				EFFICIENCY		
				96.49		
11	5	1	5	1.000000	5	1.199349

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.833786		
				0.012173		0.017511
				79.52		98.03
11	4	4	1	0.237552	1	0.035981
			2	0.113394	2	0.069242
			3	0.104661	3	0.092835
			4	0.544392	4	1.147166
				BIAS CORR		
				0.662425		
				VAR COEFF		0.021704
				EFFICIENCY		100.00
				EFF(M/N)		35.15
11	4	4	1	0.238251	2	0.095916
			2	0.155405	3	0.096797
			4	0.606344	4	1.147918
				BIAS CORR		
				0.663111		
				VAR COEFF		0.021720
				EFFICIENCY		99.93
11	4	4	1	0.308531	2	0.134426
			4	0.691469	4	1.205034
				BIAS CORR		
				0.668133		
				VAR COEFF		0.021750
				EFFICIENCY		99.79
11	4	1	4	1.000000	4	1.309072
				BIAS CORR		
				0.763900		
				VAR COEFF		0.021929
				EFFICIENCY		98.97
11	3	4	1	0.269875	1	0.047897
			2	0.127295	2	0.089749
			3	0.602829	3	1.348703
				BIAS CORR		
				0.611166		
				VAR COEFF		0.029486
				EFFICIENCY		100.00
				EFF(M/N)		25.87
11	3	2	1	0.312286	2	0.125274
			3	0.687714	3	1.349934

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	3	1	3	1.000000	3	1.457804
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	2	2	1	0.324875	1	0.069993
			2	0.675125	2	1.637745
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
11	2	1	2	1.000000	2	1.691435
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	1	1	1	1.000000	1	2.205059
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
12	12	12	1	0.154941	1	0.011440
			2	0.072847	2	0.021683
			3	0.067709	3	0.031081
			4	0.066331	4	0.040529
			5	0.067302	5	0.049909
			6	0.068364	6	0.060354
			7	0.071333	7	0.071018
			8	0.073831	8	0.083764
			9	0.079041	9	0.098009
			10	0.082785	10	0.116312
			11	0.089869	11	0.141718
			12	0.106648	12	0.206886
				BIAS CORR		
				VAR COEFF		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		100.00
12	12	11	1	0.155345	2	0.030198
			2	0.071590	3	0.031020
			3	0.071114	4	0.040626
			4	0.061750	5	0.049728
			5	0.102806	6	0.060626
			7	0.108658	7	0.070730
			8	0.066709	8	0.084038
			9	0.096210	9	0.097864
			10	0.077401	10	0.116409
			11	0.091929	11	0.141727
			12	0.106487	12	0.206932
			BIAS CORR	0.889326		
			VAR COEFF	0.006661		0.006980
			EFFICIENCY	99.89		99.98
12	12	11	1	0.154877	2	0.042363
			2	0.075398	4	0.059300
			3	0.061392	5	0.048071
			4	0.102828	6	0.063327
			5	0.137734	7	0.066948
			8	0.117435	8	0.088122
			9	0.064108	9	0.094896
			10	0.092082	10	0.117900
			11	0.086803	11	0.141378
			12	0.107342	12	0.207062
			BIAS CORR	0.889404		
			VAR COEFF	0.006668		0.006983
			EFFICIENCY	99.78		99.94
12	12	9	1	0.155915	2	0.042313
			2	0.069989	4	0.081685
			3	0.099303	6	0.090255
			5	0.137671	7	0.061938
			7	0.143085	8	0.095430
			9	0.121570	9	0.087920
			10	0.072084	10	0.122106
			11	0.093957	11	0.140127
			12	0.106427	12	0.207354



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.889457		
			VAR COEFF	0.006605		
			EFFICIENCY	99.68		
12	12	8	1	0.155134	2	0.042019
			2	0.099377	4	0.083008
			4	0.139344	6	0.120670
			6	0.138819	8	0.127140
			8	0.152973	9	0.084431
			10	0.120451	10	0.125178
			11	0.086156	11	0.138969
			12	0.107745	12	0.207747
			BIAS CORR	0.889702		
			VAR COEFF	0.006687		
			EFFICIENCY	99.50		
12	12	7	1	0.178828	3	0.074033
			3	0.144008	5	0.102628
			5	0.139527	7	0.143847
			7	0.144514	9	0.144723
			9	0.163916	10	0.107331
			11	0.122305	11	0.145552
			12	0.106902	12	0.207085
			BIAS CORR	0.890484		
			VAR COEFF	0.006713		
			EFFICIENCY	99.11		
12	12	6	1	0.181756	4	0.114020
			3	0.169986	6	0.121951
			6	0.183340	8	0.172926
			8	0.150532	10	0.162889
			10	0.180167	11	0.138902
			12	0.134218	12	0.208755
			BIAS CORR	0.888929		
			VAR COEFF	0.006777		
			EFFICIENCY	98.17		
12	12	5	1	0.201525	5	0.160740
			4	0.256066	7	0.144355
			8	0.226868	9	0.208992
			10	0.179932	11	0.188814

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			12	0.135609	12	0.208952
			BIAS CORR	0.892052		
			VAR COEFF	0.006857		0.007074
			EFFICIENCY	97.03		98.65
12	12	4	1	0.223866	5	0.232290
			5	0.312717	9	0.277008
			9	0.303606	11	0.190132
			12	0.159812	12	0.211148
			BIAS CORR	0.890094		
			VAR COEFF	0.007017		0.007147
			EFFICIENCY	94.82		97.65
12	12	5	1	0.253912	6	0.309252
			6	0.432337	10	0.335076
			11	0.313751	12	0.258001
			BIAS CORR	0.871545		
			VAR COEFF	0.007408		0.007314
			EFFICIENCY	89.82		95.41
12	12	2	3	0.453112	8	0.540801
			9	0.546888	12	0.340698
			BIAS CORR	0.880450		
			VAR COEFF	0.008353		0.007890
			EFFICIENCY	79.65		88.44
12	12	1	7	1.000000	10	0.884666
			BIAS CORR	0.930380		
			VAR COEFF	0.010953		0.010012
			EFFICIENCY	60.75		69.70
12	11	11	1	0.158671	1	0.012539
			2	0.074364	2	0.023200
			3	0.070111	3	0.035543
			4	0.066040	4	0.040352
			5	0.071927	5	0.060710
			6	0.066214	6	0.052046
			7	0.076420	7	0.084505
			8	0.072893	8	0.085835
			9	0.081128	9	0.109499
			10	0.083495	10	0.124326

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			11	0.178736	11	0.333999
			BIAS CORR	0.866309		
			VAR COEFF	0.006812		0.007617
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.66		91.62
12	11	10	1	0.159057	2	0.032533
			2	0.073144	3	0.035477
			3	0.073406	4	0.040460
			4	0.061603	5	0.060515
			5	0.106309	6	0.058344
			7	0.112565	7	0.084193
			8	0.065997	8	0.086135
			9	0.089037	9	0.109343
			10	0.078280	10	0.124434
			11	0.180601	11	0.334056
			BIAS CORR	0.866396		
			VAR COEFF	0.006820		0.007618
			EFFICIENCY	99.89		99.98
12	11	9	1	0.159440	2	0.032207
			2	0.071717	3	0.053324
			3	0.078326	5	0.064033
			4	0.052943	6	0.054794
			5	0.112681	7	0.089832
			7	0.145988	8	0.079300
			9	0.121055	9	0.115097
			10	0.076287	10	0.121497
			11	0.181563	11	0.334999
			BIAS CORR	0.866156		
			VAR COEFF	0.006827		0.007622
			EFFICIENCY	99.78		99.93
12	11	8	1	0.159621	2	0.031314
			2	0.071557	3	0.054387
			3	0.101517	5	0.110460
			5	0.141075	7	0.119381
			7	0.146629	8	0.074198
			9	0.124047	9	0.121162
			10	0.072987	10	0.117440
			11	0.182568	11	0.336539

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.866542		
			VAR COEFF	0.006833		0.007627
			EFFICIENCY	99.69		99.87
12	11	7	1	0.160047	3	0.080318
			2	0.071100	5	0.110401
			3	0.101670	7	0.120935
			5	0.142810	8	0.072066
			7	0.146950	9	0.122616
			9	0.166309	10	0.116958
			11	0.211115	11	0.336934
			BIAS CORR	0.865299		
			VAR COEFF	0.006849		0.007633
			EFFICIENCY	99.47		99.79
12	11	6	1	0.183064	3	0.080345
			3	0.147240	5	0.112293
			5	0.142971	7	0.157287
			7	0.148104	9	0.157089
			9	0.166942	10	0.115460
			11	0.211679	11	0.338019
			BIAS CORR	0.867500		
			VAR COEFF	0.006873		0.007642
			EFFICIENCY	99.12		99.55
12	11	5	1	0.185460	4	0.124783
			3	0.179903	6	0.132005
			6	0.217793	8	0.168213
			9	0.201914	10	0.176726
			11	0.214930	11	0.332609
			BIAS CORR	0.867441		
			VAR COEFF	0.006947		0.007675
			EFFICIENCY	98.07		99.24
12	11	4	1	0.207288	5	0.175470
			4	0.262494	7	0.157964
			8	0.284636	9	0.226410
			11	0.245582	11	0.386476
			BIAS CORR	0.868624		
			VAR COEFF	0.007047		0.007726
			EFFICIENCY	96.68		96.59

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
12	11		1	0.253912	5	0.254013
			6	0.432337	9	0.301112
			11	0.313751	11	0.390195
			BIAS CORR	0.871545		
			VAR COEFF	0.007408		0.007813
			EFFICIENCY	91.47		97.49
12	11	2	3	0.453112	7	0.436721
			9	0.546888	11	0.466177
			BIAS CORR	0.880450		
			VAR COEFF	0.008357		0.008130
			EFFICIENCY	81.56		93.69
12	11	1	7	1.000000	10	0.884666
			BIAS CORR	0.930380		
			VAR COEFF	0.010953		0.010012
			EFFICIENCY	62.20		76.27
12	10	1	1	0.163319	1	0.013460
			2	0.077872	2	0.028041
			3	0.067517	3	0.029713
			4	0.070663	4	0.065693
			5	0.057614	5	0.033711
			6	0.086110	6	0.099669
			7	0.063781	7	0.063191
			8	0.084591	8	0.117442
			9	0.077367	9	0.104167
			10	0.243161	10	0.450799
			BIAS CORR	0.841858		
			VAR COEFF	0.007019		0.005199
			EFFICIENCY	100.00		100.00
			(L11/M/N)	94.79		63.19
12	10	2	1	0.161306	2	0.031074
			2	0.078727	3	0.029641
			3	0.065704	4	0.065773
			4	0.106598	5	0.033697
			6	0.118461	6	0.099927
			7	0.057666	7	0.062852
			8	0.093937	8	0.113810

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
12	10	8	9	0.068862	9	0.108000
			10	0.247169	10	0.450974
			BIAS CORR	0.842151		
			VAR COEFF	0.007025		0.008391
			EFFICIENCY	99.92		99.98
			1	0.163226	2	0.038462
			2	0.080091	3	0.028555
			3	0.061961	4	0.082079
			4	0.110020	6	0.118884
			6	0.146772	7	0.059263
12	10	7	8	0.123287	8	0.119023
			9	0.065296	9	0.103017
			10	0.249344	10	0.453306
			BIAS CORR	0.842133		
			VAR COEFF	0.007031		0.008393
			EFFICIENCY	99.84		99.95
			1	0.163308	2	0.049663
			2	0.081251	4	0.098557
			3	0.058165	6	0.120504
			4	0.113385	7	0.055956
12	10	6	6	0.147809	8	0.122541
			8	0.158139	9	0.100510
			10	0.277942	10	0.454376
			BIAS CORR	0.841575		
			VAR COEFF	0.007040		0.008395
			EFFICIENCY	99.71		99.92
			1	0.163493	2	0.049397
			2	0.104298	4	0.099746
			4	0.146891	6	0.147961
			6	0.147875	8	0.151177
12	10	5	8	0.159477	9	0.097364
			10	0.277965	10	0.456472
			BIAS CORR	0.842383		
			VAR COEFF	0.007050		0.008401
			EFFICIENCY	99.57		99.86
			1	0.190741	2	0.048673
			3	0.177642	4	0.101488

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			6	0.193203	6	0.149597
			8	0.156601	8	0.203221
			10	0.281814	10	0.499820
			BIAS CORR	0.844866		
			VAR COEFF	0.007111		0.008421
			EFFICIENCY	98.72		99.62
12	10	4	1	0.211383	4	0.136276
			4	0.268918	6	0.149545
			8	0.237048	8	0.204127
			10	0.282651	10	0.501236
			BIAS CORR	0.847616		
			VAR COEFF	0.007197		0.008443
			EFFICIENCY	97.53		99.36
12	10	3	1	0.254470	4	0.204619
			6	0.384430	8	0.280389
			10	0.361101	10	0.504617
			BIAS CORR	0.855165		
			VAR COEFF	0.007441		0.008521
			EFFICIENCY	94.33		98.45
12	10	2	3	0.453112	6	0.367773
			9	0.546888	10	0.601636
			BIAS CORR	0.880450		
			VAR COEFF	0.008353		0.008712
			EFFICIENCY	84.03		96.29
12	10	1	7	1.000000	10	0.894666
			BIAS CORR	0.930380		
			VAR COEFF	0.010953		0.010012
			EFFICIENCY	64.09		83.79
12	9	9	1	0.169758	1	0.015902
			2	0.077015	2	0.023838
			3	0.083235	3	0.059440
			4	0.053079	4	0.016413
			5	0.098940	5	0.115813
			6	0.051541	6	0.035835
			7	0.092405	7	0.122668
			8	0.070634	8	0.092365

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			9	0.303384	9	0.564705
			BIAS CORR	0.815878		
			VAR COEFF	0.007276		0.009338
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.44		74.73
12	9	5	1	0.170026	1	0.015926
			2	0.076094	2	0.023698
			3	0.085626	3	0.066671
			4	0.049985	5	0.125243
			5	0.125402	6	0.034548
			7	0.120413	7	0.124839
			8	0.065463	8	0.089642
			9	0.306991	9	0.566221
			BIAS CORR	0.816043		
			VAR COEFF	0.007281		0.009338
			EFFICIENCY	99.94		99.99
12	9	7	1	0.170207	1	0.016038
			2	0.075791	2	0.023069
			3	0.107642	3	0.067335
			5	0.152326	5	0.141837
			7	0.124989	7	0.143408
			8	0.057554	8	0.086501
			9	0.311491	9	0.568449
			BIAS CORR	0.816483		
			VAR COEFF	0.007286		0.009340
			EFFICIENCY	99.87		99.97
12	9	9	1	0.170518	1	0.023298
			2	0.074581	3	0.081977
			3	0.108627	5	0.141796
			5	0.153812	7	0.144334
			7	0.154046	8	0.085169
			9	0.338416	9	0.569204
			BIAS CORR	0.816193		
			VAR COEFF	0.007292		0.009343
			EFFICIENCY	99.78		99.95
12	9	11	1	0.194695	3	0.096318
			3	0.156455	5	0.141794



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			5	0.154012	7	0.144916
			7	0.155276	8	0.084485
			9	0.339563	9	0.570031
			BIAS CORR	0.818365		
			VAR COEFF	0.007319		0.009351
			EFFICIENCY	99.42		99.96
12	9	4	1	0.197058	3	0.096380
			3	0.157198	5	0.144000
			5	0.231784	7	0.187624
			9	0.413961	9	0.609988
			BIAS CORR	0.816920		
			VAR COEFF	0.007403		0.009363
			EFFICIENCY	98.29		99.72
12	9	3	1	0.240656	5	0.217103
			5	0.336944	7	0.187708
			9	0.422400	9	0.614832
			BIAS CORR	0.825191		
			VAR COEFF	0.007553		0.009429
			EFFICIENCY	96.34		99.03
12	9	2	3	0.453112	5	0.311092
			9	0.546888	9	0.708263
			BIAS CORR	0.880450		
			VAR COEFF	0.008353		0.009552
			EFFICIENCY	87.11		97.75
12	9	1	7	1.000000	9	0.946053
			BIAS CORR	0.930380		
			VAR COEFF	0.010953		0.010441
			EFFICIENCY	66.43		89.43
12	8	8	1	0.176282	1	0.016045
			2	0.087253	2	0.040678
			3	0.063552	3	0.020107
			4	0.099785	4	0.107783
			5	0.049760	5	0.022987
			6	0.095972	6	0.125256
			7	0.070014	7	0.085192
			8	0.357382	8	0.674822

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
12	9	7		BIAS CORR		0.787964
				VAR COEFF		0.007597
				EFFICIENCY		100.00
				EFF(M/N)		87.58
			1	0.176273	1	0.015994
			2	0.087829	2	0.040923
			3	0.062449	3	0.019582
			4	0.123512	4	0.118721
			6	0.123508	6	0.137956
			7	0.065326	7	0.083015
			8	0.361103	8	0.676503
				BIAS CORR		0.788235
				VAR COEFF		0.007601
				EFFICIENCY		99.94
12	8	6	1	0.176210	1	0.015973
			2	0.089360	2	0.048633
			3	0.058445	4	0.129986
			4	0.127215	6	0.138976
			6	0.155535	7	0.080869
			8	0.393235	8	0.677904
				BIAS CORR		0.788115
				VAR COEFF		0.007608
				EFFICIENCY		99.95
			1	0.176396	2	0.060495
			2	0.112519	4	0.129964
			4	0.160883	6	0.139213
			6	0.155602	7	0.080521
			8	0.394600	8	0.678274
				BIAS CORR		0.788924
				VAR COEFF		0.007618
				EFFICIENCY		99.72
12	8	5	1	0.176396	2	0.060495
			2	0.112519	4	0.129964
			4	0.160883	6	0.139213
			6	0.155602	7	0.080521
			8	0.394600	8	0.678274
				BIAS CORR		0.788924
				VAR COEFF		0.007618
				EFFICIENCY		99.72
			1	0.206646	2	0.060168
			3	0.191540	4	0.131654
			6	0.206656	6	0.178706
			8	0.395158	8	0.718094
				BIAS CORR		0.790930
				VAR COEFF		0.007696
				EFFICIENCY		99.95

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.85
12	3	2	1	0.228305	4	0.174774
			4	0.291095	6	0.178730
			8	0.480599	8	0.720763
				BIAS CORR		
				0.793612		
				VAR COEFF		0.010595
				0.007786		
				EFFICIENCY		99.53
				97.57		
12	8	2	2	0.386274	4	0.256898
			8	0.613726	8	0.815097
				BIAS CORR		
				0.831194		
				VAR COEFF		0.010698
				0.008454		
				EFFICIENCY		98.49
				89.96		
12	8	1	7	1.000000	8	1.006251
				BIAS CORR		
				0.930380		
				VAR COEFF		0.011310
				0.010953		
				EFFICIENCY		93.09
				69.36		
12	7	7	1	0.186868	1	0.021064
			2	0.082672	2	0.027783
			3	0.093881	3	0.078621
			4	0.060356	4	0.031704
			5	0.095693	5	0.115551
			6	0.072699	6	0.085440
			7	0.407831	7	0.785706
				BIAS CORR		
				0.757706		
				VAR COEFF		0.012094
				0.007997		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		57.70
				83.19		
12	7	6	1	0.187105	1	0.021094
			2	0.082471	2	0.027640
			3	0.120409	3	0.092509
			5	0.129727	5	0.133384
			6	0.069058	6	0.083506
			7	0.411230	7	0.787419
				BIAS CORR		
				0.758116		
				VAR COEFF		0.012097
				0.008005		
				EFFICIENCY		99.98
				99.90		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
12	7	3	1	0.187490	1	0.029798
			2	0.081425	3	0.110065
			3	0.121738	5	0.133902
			5	0.162828	6	0.082250
			7	0.446518	7	0.788524
			BIAS CORR	0.758073		
			VAR COEFF	0.008013		0.012100
			EFFICIENCY	99.80		99.95
12	7	4	1	0.213957	1	0.029639
			3	0.174019	3	0.110756
			5	0.163080	5	0.173302
			7	0.448944	7	0.830791
			BIAS CORR	0.760231		
			VAR COEFF	0.009045		0.012112
			EFFICIENCY	99.41		99.86
12	7	5	1	0.216408	3	0.129033
			3	0.242737	5	0.173308
			7	0.540856	7	0.831769
			BIAS CORR	0.760920		
			VAR COEFF	0.008147		0.012125
			EFFICIENCY	98.16		99.75
12	7	7	1	0.314635	3	0.200550
			7	0.685365	7	0.930981
			BIAS CORR	0.776834		
			VAR COEFF	0.008645		0.012239
			EFFICIENCY	92.51		98.82
12	7	1	7	1.000000	7	1.074829
			BIAS CORR	0.930380		
			VAR COEFF	0.010953		0.012653
			EFFICIENCY	73.02		95.58
12	6	1	1	0.197331	1	0.021513
			2	0.096375	2	0.050461
			3	0.078011	3	0.045760
			4	0.092556	4	0.097395
			5	0.079501	5	0.088162

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			6	0.456226	6	0.905150
			BIAS CORR	0.724636		
			VAR COEFF	0.008510		0.014191
			EFFICIENCY	100.00		100.00
			EFF(M/N)	78.19		49.17
12	6	5	1	0.197447	2	0.066468
			2	0.097164	3	0.045706
			3	0.076814	4	0.097502
			4	0.130057	5	0.087938
			5	0.498518	6	0.905647
			BIAS CORR	0.724718		
			VAR COEFF	0.008521		0.014196
			EFFICIENCY	99.86		99.96
12	6	4	1	0.197789	2	0.084475
			2	0.127670	4	0.124262
			4	0.174369	5	0.086779
			5	0.500173	6	0.907044
			BIAS CORR	0.725492		
			VAR COEFF	0.008539		0.014203
			EFFICIENCY	99.66		99.92
12	6	3	1	0.230582	2	0.084590
			3	0.216782	4	0.164349
			6	0.552635	6	0.953393
			BIAS CORR	0.727408		
			VAR COEFF	0.008618		0.014216
			EFFICIENCY	98.74		99.82
12	6	2	1	0.306428	4	0.225233
			6	0.693572	6	0.957471
			BIAS CORR	0.738896		
			VAR COEFF	0.008964		0.014283
			EFFICIENCY	94.93		99.36
12	6	1	6	1.000000	6	1.149549
			BIAS CORR	0.869906		
			VAR COEFF	0.011040		0.014589
			EFFICIENCY	77.08		97.27

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
12	5	3	1	0.213957	1	0.028254
			2	0.098085	2	0.047867
			3	0.095181	3	0.079787
			4	0.087609	4	0.090497
			5	0.505168	5	1.039065
		BIAS CORR		0.687823		
				0.009183		0.017163
				100.00		100.00
				72.45		40.66
12	5	4	1	0.214406	2	0.068893
			2	0.097957	3	0.079741
			3	0.133644	4	0.090633
			4	0.553993	5	1.039458
			5	0.688072		
		BIAS CORR		0.009200		0.017172
				99.82		99.95
12	5	2	1	0.246457	2	0.068688
			3	0.196688	3	0.119404
			4	0.556855	5	1.090062
			5	0.690212		
				0.009246		0.017190
		BIAS CORR		99.32		99.84
12	5	2	1	0.302556	3	0.176453
			5	0.697444	5	1.091909
				0.697366		
				0.009482		0.017219
				96.85		99.67
		BIAS CORR				
12	5	1	5	1.000000	5	1.237645
				0.807986		
				0.011395		0.017440
				80.66		98.41
		BIAS CORR				
12	4	4	1	0.234850	1	0.033650
			2	0.110046	2	0.065191
			3	0.100164	3	0.089778
			4	0.554930	4	1.196530
				0.645801		
		BIAS CORR				

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.021702
				EFFICIENCY		100.00
				EFF(M/N)		32.16
12	4	2	1	0.235468	2	0.090242
			2	0.149921	3	0.089728
			4	0.614611	4	1.197191
				BIAS CORR		
				VAR COEFF		0.021715
				EFFICIENCY		99.71
12	4	2	1	0.302597	2	0.125653
			4	0.697403	4	1.250410
				BIAS CORR		
				VAR COEFF		0.021739
				EFFICIENCY		99.83
12	4	1	4	1.000000	4	1.347970
				BIAS CORR		
				VAR COEFF		0.021896
				EFFICIENCY		99.16
12	3	2	1	0.267138	1	0.044978
			2	0.123489	2	0.083896
			3	0.609373	3	1.396276
				BIAS CORR		
				VAR COEFF		0.029485
				EFFICIENCY		100.00
				EFF(M/N)		23.67
12	3	2	1	0.307941	2	0.117401
			3	0.692059	3	1.397173
				BIAS CORR		
				VAR COEFF		0.029508
				EFFICIENCY		99.92
12	3	1	3	1.000000	3	1.498504
				BIAS CORR		
				VAR COEFF		0.029594
				EFFICIENCY		99.63

TABLE I'  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	0.321899	1	0.065694
			2	0.678101	2	1.685694
			BIAS CORR	0.532977		
			VAR COEFF	0.013945		0.045823
			EFFICIENCY	100.00		100.00
			EFF(M/N)	47.71		15.23
12	2	1	2	1.000000	2	1.736140
			BIAS CORR	0.575990		
			VAR COEFF	0.015219		0.045872
			EFFICIENCY	91.63		99.89
12	1	1	1	1.000000	1	2.260565
			BIAS CORR	0.442367		
			VAR COEFF	0.019597		0.100146
			EFFICIENCY	100.00		100.00
			EFF(M/N)	33.95		6.97
12	13	13	1	0.148494	1	0.010003
			2	0.068202	2	0.018672
			3	0.064292	3	0.027496
			4	0.059079	4	0.033143
			5	0.064787	5	0.044389
			6	0.059382	6	0.049972
			7	0.067533	7	0.061810
			8	0.063397	8	0.068832
			9	0.072765	9	0.0829 6
			10	0.070388	10	0.093393
			11	0.078916	11	0.111685
			12	0.083447	12	0.134062
			13	0.099317	13	0.194082
			BIAS CORR	0.888752		
			VAR COEFF	0.006137		0.006430
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
12	13	12	1	0.149296	1	0.010457
			2	0.063055	2	0.015491
			3	0.090609	3	0.043984
			4	0.028676	5	0.077474
			5	0.113837	6	0.024815



TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
11	11	11	7	0.113273	7	0.086554
			8	0.024931	8	0.041012
			9	0.116231	9	0.112563
			10	0.033418	10	0.069578
			11	0.092463	11	0.124419
			12	0.077019	12	0.130154
			13	0.100193	13	0.194619
			BIAS CORR	0.888782		
			VAR COEFF	0.006134		0.006431
			EFFICIENCY	99.97		99.94
			1	0.149524	1	0.010896
			2	0.061471	2	0.013234
12	12	12	3	0.085968	3	0.044944
			4	0.014365	4	0.093503
			5	0.121286	5	0.102497
			6	0.124898	6	0.031925
			7	0.132128	7	0.123916
			8	0.026943	8	0.059076
			9	0.103346	9	0.130563
			10	0.075664	10	0.128196
			11	0.100400	11	0.194897
			BIAS CORR	0.888726		
			VAR COEFF	0.006140		0.006451
			EFFICIENCY	99.96		99.98
13	13	13	1	0.149581	1	0.011022
			2	0.061185	2	0.053791
			3	0.093975	3	0.093619
			4	0.131361	4	0.103960
			5	0.124909	5	0.029309
			6	0.136536	6	0.125229
			7	0.021089	7	0.057795
			8	0.105890	8	0.131179
			9	0.075047	9	0.128034
			10	0.100476	10	0.194247
			BIAS CORR	0.888651		
			VAR COEFF	0.006140		0.006432
			EFFICIENCY	99.95		99.96
12	12	9	1	0.145371	2	0.034752

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
11	11	0	2	0.060571	4	0.074477
			3	0.093832	6	0.103412
			5	0.132883	8	0.123170
			7	0.125069	9	0.035490
			9	0.147507	10	0.133634
			11	0.115084	11	0.089249
			12	0.074860	12	0.141315
			13	0.100525	13	0.193234
			BIAS CORR	0.888630		
			VAR COEFF	0.006141		0.006433
			EFFICIENCY	99.93		99.94
12	12	0	1	0.147599	2	0.033850
			2	0.090923	4	0.076051
			4	0.131616	6	0.105134
			6	0.129210	8	0.140187
			9	0.134431	10	0.150866
			10	0.156342	11	0.087726
			12	0.111603	12	0.142082
			13	0.098196	13	0.193152
			BIAS CORR	0.988425		
			VAR COEFF	0.006151		0.006435
			EFFICIENCY	99.77		99.91
13	13	0	1	0.169726	3	0.061465
			3	0.132544	5	0.076617
			5	0.133928	7	0.113034
			7	0.128449	9	0.170179
			9	0.148288	11	0.157790
			11	0.164708	12	0.126508
			13	0.122357	13	0.195513
			BIAS CORR	0.887498		
			VAR COEFF	0.006184		0.006442
			EFFICIENCY	99.24		99.81
13	13	0	1	0.171221	4	0.099778
			3	0.131756	6	0.109823
			5	0.197196	8	0.140127
			9	0.212404	10	0.202364
			11	0.163912	12	0.176244
			13	0.123511	13	0.193674

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
13	13	5		BIAS CORR		
				VAR COEFF		0.006465
				EFFICIENCY		99.45
			1	0.173360	4	0.148995
			3	0.189155	8	0.198485
		11	7	0.284641	10	0.200052
			11	0.228055	12	0.177897
			13	0.124789	13	0.195164
				BIAS CORR		
				VAR COEFF		0.006503
				EFFICIENCY		98.28
		13	1	0.211494	6	0.259368
			5	0.292861	10	0.269947
			9	0.330746	12	0.178424
			13	0.164899	13	0.197123
				BIAS CORR		
				VAR COEFF		0.006578
				EFFICIENCY		97.75
13	13	3	1	0.224244	7	0.331941
			5	0.380814	11	0.322810
			11	0.394942	13	0.241384
				BIAS CORR		
				VAR COEFF		0.006744
				EFFICIENCY		95.35
		4	4	0.486355	9	0.551693
			10	0.513645	13	0.321265
				BIAS CORR		
				VAR COEFF		0.007308
				EFFICIENCY		87.99
		1	7	1.000000	11	0.872110
				BIAS CORR		
				VAR COEFF		0.009261
				EFFICIENCY		69.43
13	12	12	1	0.151177	1	0.009767
			2	0.073296	2	0.027739

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	0.053785	3	0.005143
			4	0.083617	4	0.084871
			5	0.035076	5	-0.016376
			6	0.092560	6	0.120232
			7	0.038685	7	0.004162
			8	0.095513	8	0.138282
			9	0.043279	9	0.025480
			10	0.096332	10	0.151786
			11	0.066723	11	0.092193
			12	0.169958	12	0.320766
			BIAS CORR	0.867725		
			VAR COEFF	0.006269		0.006965
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.89		92.32
12	12	11	1	0.150765	1	0.009711
			2	0.076258	2	0.028128
			3	0.044352	3	0.003909
			4	0.107121	4	0.087155
			6	0.121359	5	-0.019177
			7	0.017172	6	0.123726
			8	0.120058	8	0.141745
			9	0.016316	9	0.022602
			10	0.118581	10	0.154282
			11	0.054704	11	0.090774
			12	0.173313	12	0.321175
			BIAS CORR	0.867873		
			VAR COEFF	0.006270		0.006965
			EFFICIENCY	99.99		100.00
13	12	10	1	0.150619	1	0.009691
			2	0.077346	2	0.029512
			3	0.040981	4	0.090121
			4	0.109991	5	-0.020585
			6	0.129761	6	0.124465
			8	0.130631	8	0.142922
			9	0.011224	9	0.020634
			10	0.123645	10	0.155622
			11	0.051482	11	0.090158
			12	0.174321	12	0.321331
			BIAS CORR	0.867880		

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.006270 99.98 0.006965 100.00
12	12	9	1	0.150560	1	0.009322
			2	0.077878	2	0.029850
			3	0.039001	4	0.080237
			4	0.111618	6	0.113756
			6	0.130272	8	0.136901
			8	0.136098	9	0.031772
			10	0.129164	10	0.146881
			11	0.050862	11	0.094606
			12	0.174546	12	0.320187
				BIAS CORR		
				VAR COEFF		0.006966
				EFFICIENCY		99.99
13	12	8	1	0.150619	2	0.036276
			2	0.093162	4	0.096327
			4	0.134027	5	-0.032268
			6	0.129836	6	0.131265
			8	0.138050	8	0.153280
			10	0.130806	10	0.167561
			11	0.048303	11	0.086980
			12	0.175195	12	0.322313
				BIAS CORR		
				VAR COEFF		0.006967
				EFFICIENCY		99.98
13	12	7	1	0.150704	2	0.036359
			2	0.092720	4	0.081605
			4	0.134041	6	0.115324
			6	0.132604	8	0.152211
			8	0.137482	10	0.162334
			10	0.158661	11	0.073201
			12	0.193788	12	0.320863
				BIAS CORR		
				VAR COEFF		0.006968
				EFFICIENCY		99.96
13	12	6	1	0.190955	4	0.107901
			4	0.181502	6	0.114915

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			6	0.132462	8	0.153073
			8	0.139499	10	0.163706
			10	0.160572	11	0.091923
			12	0.195010	12	0.321697
			BIAS CORR	0.872443		
			VAR COEFF	0.006333		0.006980
			EFFICIENCY	98.99		99.79
12	12		1	0.192258	4	0.107129
			4	0.242071	6	0.127341
			8	0.210311	8	0.152205
			10	0.157743	10	0.217110
			12	0.197619	12	0.357879
			BIAS CORR	0.872864		
			VAR COEFF	0.006387		0.007002
			EFFICIENCY	98.15		99.47
12	12	4	1	0.195470	4	0.161146
			4	0.245253	8	0.215241
			8	0.305594	10	0.214693
			12	0.253683	12	0.361016
			BIAS CORR	0.867137		
			VAR COEFF	0.006489		0.007047
			EFFICIENCY	90.62		98.84
12	12	4	1	0.224244	6	0.282209
			5	0.380814	10	0.290863
			11	0.394942	12	0.363521
			BIAS CORR	0.848948		
			VAR COEFF	0.006847		0.007133
			EFFICIENCY	91.56		97.64
12	12	4	4	0.486355	6	0.453112
			10	0.513645	12	0.459000
			BIAS CORR	0.904114		
			VAR COEFF	0.007716		0.007469
			EFFICIENCY	81.25		93.25
12	12	1	7	1.000000	11	0.872110
			BIAS CORR	0.900200		
			VAR COEFF	0.010158		0.009250

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				61.72		75.21
				EFFICIENCY		
12	11	11	1	0.157468	1	0.015503
			2	0.057753	2	-0.004671
			3	0.112365	3	0.119981
			4	-0.027053	4	-0.133333
			5	0.186825	5	0.283846
			6	-0.058727	6	-0.176586
			7	0.181620	7	0.258352
			8	-0.044672	8	-0.134928
			9	0.187519	9	0.313986
			10	-0.017248	10	-0.067102
			11	0.264150	11	0.491517
			BIAS CORR	0.846592		
			VAR COEFF	0.006429		0.007567
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.46		84.98
12	11	10	1	0.157250	1	0.014092
			2	0.059360	3	0.116205
			3	0.107052	4	-0.131430
			4	-0.016588	5	0.281367
			5	0.173101	6	-0.174034
			6	-0.045384	7	0.285814
			7	0.169910	8	-0.132170
			8	-0.032944	9	0.311076
			9	0.171377	10	-0.064888
			11	0.256866	11	0.490622
			BIAS CORR	0.846499		
			VAR COEFF	0.006429		0.007567
			EFFICIENCY	100.00		100.00
12	11	9	1	0.157149	3	0.125183
			2	0.060106	4	-0.134507
			3	0.099359	5	0.285336
			5	0.161563	6	-0.178075
			6	-0.040560	7	0.289907
			7	0.163454	8	-0.136657
			8	-0.023729	9	0.315753
			9	0.165490	10	-0.068505
			11	0.257169	11	0.492254

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.846238		
			VAR COEFF	0.006429		0.007569
			EFFICIENCY	99.99		99.96
12	11	0	1	0.156963	3	0.110238
			2	0.061573	4	-0.093858
			3	0.098296	5	0.232034
			5	0.157052	6	-0.126434
			6	-0.034074	7	0.245106
			7	0.149447	8	-0.092070
			9	0.153875	9	0.252905
			11	0.256868	11	0.463475
			BIAS CORR	0.846179		
			VAR COEFF	0.006430		0.007574
			EFFICIENCY	99.98		99.91
12	11	7	1	0.156823	3	0.096076
			2	0.062624	4	-0.060746
			3	0.097232	5	0.196317
			5	0.141047	6	-0.097368
			7	0.133674	7	0.189259
			9	0.151684	9	0.205370
			11	0.256917	11	0.463505
			BIAS CORR	0.845837		
			VAR COEFF	0.006432		0.007582
			EFFICIENCY	99.95		99.79
12	11	6	1	0.176915	3	0.069940
			3	0.137440	5	0.159646
			5	0.140750	6	-0.089076
			7	0.135005	7	0.185738
			9	0.152839	9	0.200519
			11	0.257052	11	0.463460
			BIAS CORR	0.847763		
			VAR COEFF	0.006449		0.007590
			EFFICIENCY	99.68		99.70
13	11	5	1	0.178559	3	0.069151
			3	0.136660	5	0.117852
			5	0.207346	7	0.144672
			9	0.220305	9	0.195015



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			11	0.257131	11	0.466085
			BIAS CORR	0.847251		
			VAR COEFF	0.006504		0.007601
			EFFICIENCY	98.85		99.55
13	11	4	1	0.180839	5	0.170948
			3	0.197070	7	0.143195
			7	0.297764	9	0.197399
			11	0.324327	11	0.462011
			BIAS CORR	0.846376		
			VAR COEFF	0.006593		0.007632
			EFFICIENCY	97.51		99.14
13	11	2	1	0.224244	5	0.240217
			5	0.390814	9	0.269130
			11	0.394942	11	0.469541
			BIAS CORR	0.848948		
			VAR COEFF	0.006847		0.007693
			EFFICIENCY	93.89		98.35
13	11	2	4	0.486355	7	0.390046
			10	0.513645	11	0.565895
			BIAS CORR	0.904114		
			VAR COEFF	0.007716		0.007905
			EFFICIENCY	83.32		95.72
13	11	1	7	1.000000	11	0.872110
			BIAS CORR	0.900200		
			VAR COEFF	0.010158		0.009261
			EFFICIENCY	63.28		81.71
13	10	10	1	0.157491	1	0.007706
			2	0.092807	2	0.060727
			3	0.005286	3	-0.086967
			4	0.190303	4	0.285162
			5	-0.097812	5	-0.262935
			6	0.227970	6	0.376711
			7	-0.071545	7	-0.195540
			8	0.210891	8	0.359926
			9	-0.070310	9	-0.177125
			10	0.354920	10	0.662781

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.824672				
				VAR COEFF	0.006620	0.008272			
				EFFICIENCY	100.00	100.00			
				EFF(M/N)	92.70	77.73			
13	10	9	1	0.157438	2	0.066585			
			2	0.094787	3	-0.087365			
			4	0.194869	4	0.285897			
			5	-0.100552	5	-0.263908			
			6	0.230778	6	0.377739			
			7	-0.074543	7	-0.196593			
			8	0.214429	8	0.361083			
			9	-0.074019	9	-0.179330			
			10	0.356812	10	0.663401			
				BIAS CORR	0.824798				
				VAR COEFF	0.006621		0.008273		
				EFFICIENCY	100.00		99.99		
			13	10	9	1	0.158294	2	0.034594
2	0.096478	4				0.210905			
4	0.170859	5				-0.219151			
5	-0.057515	6				0.332112			
6	0.193149	7				-0.147430			
7	-0.045565	8				0.303333			
8	0.163950	9				-0.117376			
10	0.320351	10				0.633495			
	BIAS CORR	0.824460							
	VAR COEFF	0.006626					0.008299		
	EFFICIENCY	99.92					99.79		
13	10	7				1	0.158703	4	0.239052
						2	0.096737	5	-0.225199
			4	0.164952	6	0.337900			
			5	-0.048626	7	-0.153612			
			6	0.167567	8	0.311725			
			8	0.142408	9	-0.126703			
			10	0.318258	10	0.639057			
				BIAS CORR	0.824075				
				VAR COEFF	0.006628		0.008299		
				EFFICIENCY	99.88		99.67		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
13	10	5	1	0.158946	4	0.200785
			2	0.096671	5	-0.151821
			4	0.142808	6	0.273867
			6	0.144124	7	-0.104477
			8	0.140662	8	0.225747
			10	0.316788	10	0.577306
			BIAS CORR	0.823304		
			VAR COEFF	0.006632		0.006315
			EFFICIENCY	99.82		99.48
13	10	5	1	0.200976	4	0.183194
			4	0.192362	5	-0.131633
			6	0.144051	6	0.215410
			8	0.142787	8	0.176546
			10	0.319821	10	0.573189
			BIAS CORR	0.828146		
			VAR COEFF	0.006689		0.008329
			EFFICIENCY	98.98		99.31
13	10	4	1	0.203393	4	0.128438
			4	0.190427	6	0.152237
			6	0.219424	8	0.172183
			10	0.386756	10	0.570641
			BIAS CORR	0.826893		
			VAR COEFF	0.006751		0.008357
			EFFICIENCY	98.06		98.90
13	10	3	1	0.241945	4	0.197170
			6	0.360735	8	0.253653
			10	0.397320	10	0.571494
			BIAS CORR	0.836613		
			VAR COEFF	0.006936		0.008429
			EFFICIENCY	95.45		96.13
13	10	2	4	0.486355	6	0.342102
			10	0.513645	10	0.660971
			BIAS CORR	0.904114		
			VAR COEFF	0.007716		0.009535
			EFFICIENCY	85.81		96.92
13	10	1	7	1.000000	10	0.929261

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.900200		
			VAR COEFF	0.010158		0.009520
			EFFICIENCY	65.17		86.89
13	9	4	1	0.168581	1	0.018616
			2	0.060297	2	-0.004867
			3	0.125221	3	0.143184
			4	-0.036882	4	-0.152376
			5	0.200689	5	0.313100
			6	-0.048312	6	-0.151637
			7	0.168747	7	0.269480
			8	-0.026946	8	-0.091901
			9	0.388604	9	0.725564
			BIAS CORR	0.798720		
			VAR COEFF	0.006877		0.009235
			EFFICIENCY	100.00		100.00
			EFF(M/N)	89.24		69.64
12	9	5	1	0.168349	1	0.017172
			2	0.062066	3	0.139952
			3	0.119723	4	-0.151705
			4	-0.027115	5	0.312354
			5	0.189798	6	-0.150761
			6	-0.039588	7	0.268398
			7	0.152243	8	-0.090580
			9	0.374524	9	0.727827
			BIAS CORR	0.798532		
			VAR COEFF	0.006878		0.009232
			EFFICIENCY	99.99		100.00
11	9	7	1	0.168332	3	0.151095
			2	0.062357	4	-0.152946
			3	0.107849	5	0.313784
			5	0.173846	6	-0.152370
			6	-0.035825	7	0.273510
			7	0.150582	8	-0.093149
			9	0.372858	9	0.721622
			BIAS CORR	0.798012		
			VAR COEFF	0.006879		0.009237
			EFFICIENCY	99.97		99.95

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
11	9	1	1	0.169180	3	0.136764
			2	0.063962	4	-0.119425
			3	0.106733	5	0.276626
			5	0.157021	6	-0.122952
			7	0.131998	7	0.213985
			9	0.170598	9	0.681541
			BIAS CORR	0.797642		
			VAR COEFF	0.006881		0.009246
			EFFICIENCY	99.94		99.86
11	9	2	1	0.144555	3	0.133608
			3	0.147484	4	-0.107520
			5	0.156725	5	0.212813
			7	0.135347	7	0.157395
			9	0.171885	9	0.674352
			BIAS CORR	0.797368		
			VAR COEFF	0.006899		0.009262
			EFFICIENCY	99.68		99.63
11	9	4	1	0.140207	3	0.084590
			3	0.146705	5	0.156833
			5	0.223499	7	0.158026
			9	0.439589	9	0.671093
			BIAS CORR	0.799040		
			VAR COEFF	0.006954		0.009291
			EFFICIENCY	98.90		99.35
13	9	1	1	0.230025	5	0.222031
			5	0.321882	7	0.156286
			9	0.448093	9	0.675413
			BIAS CORR	0.806685		
			VAR COEFF	0.007075		0.009339
			EFFICIENCY	97.20		98.08
13	9	2	3	0.428251	5	0.297838
			9	0.571749	9	0.755432
			BIAS CORR	0.858484		
			VAR COEFF	0.007778		0.009410
			EFFICIENCY	84.42		98.12
13	9	1	7	1.000000	9	0.986148

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
11	5	-		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.900200		
				0.010158		0.010154
				87.70		90.93
			1	0.172325	1	0.012392
			2	0.093836	2	0.056996
			3	0.031647	3	-0.039688
			4	0.145715	4	0.201557
13	7	-	5	-0.007752	5	-0.087452
			6	0.132258	6	0.199386
			7	0.027835	7	0.003311
			8	0.404136	8	0.774123
				BIAS CORR		
				0.770188		
				VAR COEFF		
				0.007205		0.010484
				EFFICIENCY		100.00
				EFF(M/N)		81.33
13	8	7	1	0.172365	1	0.012356
			2	0.093632	2	0.057151
			3	0.032144	3	-0.040150
			4	0.141804	4	0.202261
			5	0.127651	5	-0.093116
			6	0.029720	6	0.201239
			8	0.402684	8	0.775839
				BIAS CORR		
				0.770098		
				VAR COEFF		0.010484
13	8	-		EFFICIENCY		100.00
			1	0.172181	2	0.066398
			2	0.095040	3	-0.040209
			3	0.028176	4	0.202377
			4	0.145352	5	-0.068389
			6	0.141468	6	0.201409
			8	0.417763	8	0.776024
				BIAS CORR		
				0.770130		
				VAR COEFF		0.010485
13	8	-		EFFICIENCY		99.98
			1	0.172207	2	0.056721
			2	0.106099	4	0.170460
			4	0.161537	5	-0.086279

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

R	M	L	I	LOCATION	I	SCALE
			6	0.141334	6	0.201140
			8	0.419124	8	0.774454
			BIAS CORR	0.770639		
			VAR COEFF	0.007209		0.010490
			EFFICIENCY	99.95		99.94
12	8	4	1	0.173730	2	0.050758
			2	0.106023	4	0.139127
			4	0.226242	6	0.159713
			8	0.494004	8	0.769835
			BIAS CORR	0.770582		
			VAR COEFF	0.007270		0.010502
			EFFICIENCY	99.10		99.23
13	8	3	1	0.220010	4	0.175849
			4	0.280787	6	0.159094
			8	0.499203	8	0.772489
			BIAS CORR	0.775342		
			VAR COEFF	0.007339		0.010524
			EFFICIENCY	98.13		99.61
14	8	2	2	0.369126	4	0.247756
			8	0.630874	8	0.858572
			BIAS CORR	0.810865		
			VAR COEFF	0.007935		0.010603
			EFFICIENCY	90.81		98.88
15	8	1	7	1.000000	8	1.045753
			BIAS CORR	0.900200		
			VAR COEFF	0.010158		0.011138
			EFFICIENCY	70.93		94.13
16	7	7	1	0.185471	1	0.021866
			2	0.074072	2	0.013494
			3	0.106824	3	0.107836
			4	0.033273	4	-0.019769
			5	0.111364	5	0.149256
			6	0.054442	6	0.051694
			7	0.434554	7	0.851151
			BIAS CORR	0.740317		
			VAR COEFF	0.007602		0.012078

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				80.72		53.24
				EFFICIENCY		
				EFF(M/N)		
13	7	5	1	0.185585	1	0.021932
			2	0.073778	2	0.013682
			3	0.121470	3	0.099161
			5	0.130703	5	0.137777
			6	0.050297	6	0.054169
			7	0.438168	7	0.849134
				BIAS CORR		
				0.740341		
				VAR COEFF		0.012078
				0.007605		
				EFFICIENCY		99.99
				99.97		
13	7	4	1	0.185941	1	0.026112
			2	0.072301	3	0.107899
			3	0.123177	5	0.138228
			5	0.154300	6	0.052899
			7	0.464280	7	0.350114
				BIAS CORR		
				0.740369		
				VAR COEFF		0.012079
				0.007609		
				EFFICIENCY		99.99
				99.92		
13	7	3	1	0.209227	1	0.025903
			3	0.169691	3	0.108648
			5	0.153956	5	0.163041
			7	0.467126	7	0.877606
				BIAS CORR		
				0.742339		
				VAR COEFF		0.012083
				0.007633		
				EFFICIENCY		99.95
				99.61		
13	7	2	1	0.211110	3	0.124742
			3	0.233782	5	0.162915
			7	0.555108	7	0.878522
				BIAS CORR		
				0.743130		
				VAR COEFF		0.012093
				0.007715		
				EFFICIENCY		99.88
				98.55		
13	7	1	1	0.303744	3	0.191126
			7	0.696256	7	0.972690
				BIAS CORR		
				0.758098		
				VAR COEFF		0.012184
				0.008145		



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		93.34
						99.12
13	7	1	7	1.000000	7	1.110864
				BIAS CORR		0.900200
				VAR COEFF		0.010158
				EFFICIENCY		74.85
						96.35
13	6	2	1	0.194562	1	0.019043
			2	0.096723	2	0.054264
			3	0.068147	3	0.024032
			4	0.095907	4	0.107298
			5	0.070902	5	0.072166
			6	0.473759	6	0.958364
				BIAS CORR		0.707675
				VAR COEFF		0.008102
				EFFICIENCY		100.00
				EFF(M/N)		75.75
						45.32
13	6	3	1	0.194542	1	0.019018
			2	0.097798	2	0.065253
			3	0.066302	4	0.123893
			4	0.129446	5	0.070916
			6	0.511911	6	0.959625
				BIAS CORR		0.707803
				VAR COEFF		0.008110
				EFFICIENCY		99.90
						99.98
13	6	4	1	0.194776	2	0.079434
			2	0.123941	4	0.123999
			4	0.167549	5	0.070558
			6	0.513734	6	0.960162
				BIAS CORR		0.708524
				VAR COEFF		0.008122
				EFFICIENCY		99.75
						99.96
13	6	5	1	0.227703	2	0.079546
			3	0.206358	4	0.156249
			6	0.565933	6	0.998154
				BIAS CORR		0.710364
				VAR COEFF		0.008201
				EFFICIENCY		98.79
						99.90

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	0.298024	4	0.214005
			6	0.701976	6	1.001721
			BIAS CORR	0.721281		
			VAR COEFF	0.008491		0.014256
			EFFICIENCY	95.42		99.51
13	6	1	6	1.000000	e	1.184919
			BIAS CORR	0.843940		
			VAR COEFF	0.010335		0.014510
			EFFICIENCY	78.39		97.77
13	5	5	1	0.212012	1	0.027264
			2	0.094275	2	0.042543
			3	0.093466	3	0.078902
			4	0.082299	4	0.081560
			5	0.517949	5	1.087204
			BIAS CORR	0.671827		
			VAR COEFF	0.008751		0.017161
			EFFICIENCY	100.00		100.00
			EFF(M/N)	70.13		37.47
13	5	4	1	0.212428	2	0.062905
			2	0.094017	3	0.078848
			3	0.129392	4	0.081745
			5	0.564164	5	1.087506
			BIAS CORR	0.672088		
			VAR COEFF	0.008765		0.017169
13	5	3		99.84		99.95
			1	0.242975	1	0.040596
			3	0.190037	3	0.141277
			5	0.566988	5	1.133658
			BIAS CORR	0.674107		
13	5	2		0.008805		0.017182
				99.39		99.88
			1	0.296181	3	0.166568
			5	0.703819	5	1.135749
13	5	2	BIAS CORR	0.680919		
			VAR COEFF	0.009009		0.017205

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		97.13
						99.74
13	5	1	5	1.000000	5	1.273050
				BIAS CORR		0.785515
				VAR COEFF		0.010729
				EFFICIENCY		81.56
13	4	4	1	0.232577	1	0.031580
			2	0.107312	2	0.061880
			3	0.096344	3	0.083603
			4	0.563767	4	1.241793
				BIAS CORR		0.630905
				VAR COEFF		0.009649
				EFFICIENCY		100.00
				EFF(M/N)		63.60
13	4	3	1	0.233113	2	0.085474
			2	0.145411	3	0.083542
			4	0.621476	4	1.242381
				BIAS CORR		0.631555
				VAR COEFF		0.009675
				EFFICIENCY		99.74
13	4	2	1	0.297696	2	0.118230
			4	0.702304	4	1.292138
				BIAS CORR		0.636095
				VAR COEFF		0.009804
				EFFICIENCY		98.43
13	4	1	4	1.000000	4	1.384174
				BIAS CORR		0.722453
				VAR COEFF		0.011406
				EFFICIENCY		84.60
13	3	3	1	0.264836	1	0.042470
			2	0.120291	2	0.078866
			3	0.614873	3	1.440211
				BIAS CORR		0.582313
				VAR COEFF		0.010995
				EFFICIENCY		100.00
				EFF(M/N)		55.82

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
12	3	2	1	0.304311	2	0.110612
			3	0.695689	3	1.440994
			BIAS CORR	0.584325		
			VAR COEFF	0.011060		0.029503
			EFFICIENCY	99.41		99.93
13	3	1	3	1.000000	3	1.536580
			BIAS CORR	0.650796		
			VAR COEFF	0.012526		0.029575
			EFFICIENCY	87.77		99.69
13	2	2	1	0.319390	1	0.061961
			2	0.680610	2	1.730491
			BIAS CORR	0.520861		
			VAR COEFF	0.013315		0.045822
			EFFICIENCY	100.00		100.00
			EFF(M/N)	46.09		14.03
13	2	1	2	1.000000	2	1.778127
			BIAS CORR	0.562389		
			VAR COEFF	0.014508		0.045863
			EFFICIENCY	91.79		99.91
13	1	1	1	1.000000	1	2.312858
			BIAS CORR	0.432365		
			VAR COEFF	0.018721		0.100146
			EFFICIENCY	100.00		100.00
			EFF(M/N)	32.78		6.42

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
11	11	11	1	0.124321	1	0.011686			
			2	0.069273	2	0.023399			
			3	0.068372	3	0.034566			
			4	0.070236	4	0.045778			
			5	0.073905	5	0.057829			
			6	0.077906	6	0.070506			
			7	0.083587	7	0.085314			
			8	0.089689	8	0.102147			
			9	0.097929	9	0.123689			
			10	0.109090	10	0.153793			
			11	0.135692	11	0.231240			
BIAS CORR				0.929482					
VAR COEFF				0.005793		0.005858			
EFFICIENCY				100.00		100.00			
EFF(M/N)				100.00		100.00			
11	11	10	1	0.124392	2	0.032316			
			2	0.069947	3	0.034523			
			3	0.067222	4	0.045837			
			4	0.105205	5	0.057710			
			5	0.118047	6	0.070695			
			7	0.079575	7	0.085157			
			8	0.094876	8	0.102292			
			9	0.094406	9	0.123565			
			10	0.110641	10	0.153847			
			11	0.135690	11	0.231299			
			BIAS CORR				0.929727		
VAR COEFF				0.005802		0.005859			
EFFICIENCY				99.84		99.97			
11	11	9	1	0.124913	2	0.045704			
			2	0.068259	4	0.066297			
			3	0.100160	5	0.056790			
			5	0.149757	6	0.072454			
			7	0.127649	7	0.082873			
			8	0.081475	8	0.104363			
			9	0.104226	9	0.122634			
			10	0.107089	10	0.154259			
			11	0.136472	11	0.231384			
			BIAS CORR				0.930000		
			VAR COEFF				0.005811		0.005863

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			EFFICIENCY	99.68		99.92
11	11	6	1	0.124628	2	0.045734
			2	0.096252	4	0.092567
			4	0.145520	6	0.103227
			6	0.158505	7	0.079832
			8	0.135536	8	0.108278
			9	0.091232	9	0.119952
			10	0.112398	10	0.155451
			11	0.135930	11	0.231431
			BIAS CORR	0.930458		
			VAR COEFF	0.005823		0.005868
			EFFICIENCY	99.48		99.83
11	11	7	1	0.124970	3	0.081812
			2	0.096293	5	0.116681
			4	0.146591	7	0.125006
			6	0.159399	8	0.095166
			8	0.187646	9	0.129133
			10	0.148883	10	0.152306
			11	0.136217	11	0.232275
			BIAS CORR	0.929269		
			VAR COEFF	0.005842		0.005877
			EFFICIENCY	99.15		99.68
11	11	8	1	0.147314	3	0.082000
			3	0.145801	5	0.118091
			5	0.153111	7	0.175343
			7	0.172718	9	0.172069
			9	0.211261	10	0.152201
			11	0.169795	11	0.232986
			BIAS CORR	0.928136		
			VAR COEFF	0.005887		0.005893
			EFFICIENCY	98.39		97.41
11	11	9	1	0.149403	4	0.127979
			3	0.178312	6	0.144752
			6	0.249043	8	0.216119
			9	0.251055	10	0.205000
			11	0.172187	11	0.233394
			BIAS CORR	0.928268		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.005929 98.80
11	11	4	1	0.170964	5	0.220068
			4	0.277141	8	0.253550
			8	0.349342	10	0.207313
			11	0.207553	11	0.236538
				BIAS CORR		
				VAR COEFF		0.005994
				EFFICIENCY		97.73
11	11	3	1	0.215605	5	0.275474
			6	0.432029	9	0.356545
			10	0.352366	11	0.289170
				BIAS CORR		
				VAR COEFF		0.006131
				EFFICIENCY		95.55
11	11	2	3	0.442936	8	0.533996
			9	0.557064	11	0.346435
				BIAS CORR		
				VAR COEFF		0.006565
				EFFICIENCY		89.23
11	11	1	7	1.000000	9	0.911817
				BIAS CORR		
				VAR COEFF		0.008399
				EFFICIENCY		69.84
11	13	13	1	0.128397	1	0.012827
			2	0.071700	2	0.026020
			3	0.069979	3	0.036878
			4	0.074010	4	0.053045
			5	0.073874	5	0.059184
			6	0.083008	6	0.082227
			7	0.084067	7	0.089797
			8	0.093444	8	0.113905
			9	0.099888	9	0.133864
			10	0.221634	10	0.367149
				BIAS CORR		
				VAR COEFF		0.006449

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		90.83
11	10	9	1	0.128468	2	0.035808
			2	0.072373	3	0.036832
			3	0.068829	4	0.053112
			4	0.108964	5	0.059054
			6	0.123132	6	0.082433
			7	0.080056	7	0.089619
			8	0.098629	8	0.114067
			9	0.096366	9	0.133841
			10	0.223182	10	0.367308
				BIAS CORR		
				VAR COEFF		0.006451
				EFFICIENCY		99.97
11	10	8	1	0.128521	2	0.050091
			2	0.073570	4	0.074944
			3	0.065867	5	0.052072
			4	0.111858	6	0.084325
			6	0.163382	7	0.087194
			8	0.137686	8	0.116291
			9	0.094886	9	0.132744
			10	0.224230	10	0.367830
				BIAS CORR		
				VAR COEFF		0.006455
				EFFICIENCY		99.91
11	10	7	1	0.128716	2	0.050122
			2	0.099313	4	0.101809
			4	0.150231	6	0.115785
			6	0.163853	7	0.084075
			8	0.139576	8	0.120287
			9	0.093145	9	0.130094
			10	0.225167	10	0.369095
				BIAS CORR		
				VAR COEFF		0.006460
				EFFICIENCY		99.83
11	10	6	1	0.129074	2	0.049954
			2	0.099361	4	0.102964



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			4	0.151335	6	0.158032
			6	0.154777	8	0.161260
			8	0.157790	9	0.128599
			10	0.262667	10	0.370414
			BIAS CORR	0.904248		
			VAR COEFF	0.006035		0.006471
			EFFICIENCY	99.15		99.65
11	10	2	1	0.172981	4	0.159362
			3	0.179609	6	0.158243
			6	0.209314	8	0.167367
			8	0.192476	9	0.128348
			10	0.265614	10	0.371840
			BIAS CORR	0.906839		
			VAR COEFF	0.006065		0.006491
			EFFICIENCY	99.34		99.32
11	10	4	1	0.173314	4	0.160579
			4	0.280920	6	0.159099
			8	0.277241	8	0.216197
			10	0.268914	10	0.424792
			BIAS CORR	0.909683		
			VAR COEFF	0.006184		0.006531
			EFFICIENCY	96.76		99.74
11	10	3	1	0.215605	4	0.214412
			6	0.432024	8	0.315665
			10	0.352366	10	0.429679
			BIAS CORR	0.915893		
			VAR COEFF	0.006492		0.006614
			EFFICIENCY	92.74		97.71
11	10	2	3	0.442936	6	0.410110
			4	0.597064	10	0.931999
			BIAS CORR	0.928907		
			VAR COEFF	0.007162		0.006854
			EFFICIENCY	83.54		94.09
11	10	1	7	1.000000	9	0.11817
			BIAS CORR	0.967692		
			VAR COEFF	0.009266		0.008371

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				64.57		76.87
				EFFICIENCY		
11	9	4	1	0.133845	1	0.014452
			2	0.073715	2	0.027249
			3	0.076428	3	0.047318
			4	0.069070	4	0.044852
			5	0.088015	5	0.085488
			6	0.075585	6	0.072284
			7	0.094167	7	0.111657
			8	0.093151	8	0.119410
			9	0.296020	9	0.488993
				BIAS CORR		
				0.878209		
				VAR COEFF		0.007140
				0.006233		
				EFFICIENCY		100.00
				100.00		
				LEF (M/H)		81.58
				92.94		
11	9	5	1	0.134185	2	0.038292
			2	0.072905	3	0.047270
			3	0.078685	4	0.044924
			4	0.066409	5	0.081351
			5	0.126061	6	0.072519
			7	0.133468	7	0.111471
			8	0.089937	8	0.115595
			9	0.298351	9	0.489098
				BIAS CORR		
				0.878278		
				VAR COEFF		0.007143
				0.006242		
				EFFICIENCY		99.97
				99.86		
11	9	7	1	0.134414	2	0.038114
			2	0.072730	3	0.066837
			3	0.107667	5	0.115645
			5	0.162090	6	0.070452
			7	0.136950	7	0.114847
			8	0.085131	8	0.116240
			9	0.301018	9	0.490940
				BIAS CORR		
				0.878730		
				VAR COEFF		0.007197
				0.006251		
				EFFICIENCY		99.71
				99.72		
11	9	9	1	0.134813	2	0.037419
			2	0.071923	3	0.067795

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			3	0.108580	5	0.144709
			5	0.163393	7	0.151334
			7	0.181932	8	0.113439
			9	0.339356	9	0.493153
			BIAS CORR	0.878160		
			VAR COEFF	0.006264		0.007194
			EFFICIENCY	99.51		99.80
11	9		1	0.157235	3	0.099200
			3	0.155442	5	0.144729
			5	0.163817	7	0.152407
			7	0.183039	8	0.112318
			9	0.340466	9	0.494176
			BIAS CORR	0.880320		
			VAR COEFF	0.006287		0.007202
			EFFICIENCY	99.14		99.69
11	9	4	1	0.159637	3	0.099468
			3	0.190865	5	0.146465
			5	0.254450	7	0.211912
			7	0.345047	8	0.545540
			9	0.879751	9	0.545540
			BIAS CORR	0.879751		
			VAR COEFF	0.006369		0.007225
			EFFICIENCY	97.86		99.38
11	9		1	0.201273	5	0.222576
			3	0.365226	7	0.212945
			5	0.433501	8	0.550563
			7	0.886817	9	0.550563
			BIAS CORR	0.886817		
			VAR COEFF	0.006936		0.007289
			EFFICIENCY	95.37		98.50
			11	9	2	3
5	0.557064	7				0.653009
7	0.928907	8				0.653009
9	0.928907	9				0.653009
BIAS CORR	0.928907					
VAR COEFF	0.007162					0.007440
EFFICIENCY	87.07					96.92
11	9	1				7
			BIAS CORR	0.969692		
			VAR COEFF	0.009266		0.009394

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				67.26		85.61
				EFFICIENCY		
11	8	8	1	0.140233	1	0.015654
			2	0.090143	2	0.035554
			3	0.070550	3	0.036119
			4	0.091221	4	0.083734
			5	0.069448	5	0.055636
			6	0.096775	6	0.112393
			7	0.088509	7	0.107522
			8	0.363121	8	0.605463
				BIAS CORR		
				0.850157		
				VAR COEFF		0.008103
				EFFICIENCY		100.00
				EFF(M/N)		72.30
11	8	7	1	0.140292	2	0.047506
			2	0.080747	3	0.036065
			3	0.069549	4	0.083822
			4	0.124001	5	0.055481
			6	0.134421	6	0.112656
			7	0.094032	7	0.107321
			8	0.366158	8	0.605776
				BIAS CORR		
				0.850407		
				VAR COEFF		0.008105
				EFFICIENCY		99.88
11	6	7	1	0.140363	2	0.061495
			2	0.082015	4	0.105158
			3	0.066450	5	0.054591
			4	0.127052	6	0.114449
			6	0.177079	7	0.104971
			8	0.407041	8	0.607376
				BIAS CORR		
				0.850153		
				VAR COEFF		0.009107
				EFFICIENCY		99.70
11	8		1	0.140563	2	0.061531
			2	0.107997	4	0.130291
			4	0.169757	6	0.143969
			6	0.177345	7	0.107118
			8	0.408140	8	0.609753

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
11	8	4		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			1	0.851011		
			3	0.00657 <sup>a</sup>		0.008114
			6	99.52		99.86
			8			
			1	0.167094	2	0.061354
			3	0.195020	4	0.131832
			6	0.227343	6	0.195339
			8	0.410543	8	0.659437
				BIAS CORR		
11	8	4		VAR COEFF		
				EFFICIENCY		
			1	0.853265		0.008130
			3	0.076642		99.66
			6	98.58		
			8			
			1	0.188999	4	0.176671
			4	0.306477	6	0.195733
			8	0.504524	8	0.662248
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	8	2		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			2	0.359562	4	0.267776
			8	0.640438	8	0.765615
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			2	0.886173		0.008287
			8	0.007302		97.77
				89.67		
11	8	1		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
			7	1.000000	8	0.970731
				0.969692		
				0.079266		0.008906
				70.66		90.98
			1	0.149408	1	0.019133
			2	0.079959	2	0.031683
			3	0.089864	3	0.068565
			4	0.071207	4	0.049995
11	7	7	5	0.098126	5	0.107983
			6	0.086565	6	0.099971
			7	0.424870	7	0.720575
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.819909		0.009301
				0.006946		100.00
				100.00		62.98
				83.40		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
11	7	6	1	0.149668	2	0.046291
			2	0.079801	3	0.068519
			3	0.120949	4	0.050080
			5	0.138135	5	0.107827
			6	0.083608	6	0.100285
			7	0.427838	7	0.720716
			BIAS CORR	0.020341		
			VAR COEFF	0.006956		0.009375
			EFFICIENCY	99.85		99.96
11	7	5	1	0.150061	2	0.046145
			2	0.078965	3	0.090306
			3	0.122164	5	0.135896
			5	0.178612	6	0.098173
			7	0.470199	7	0.722753
			BIAS CORR	0.820257		
			VAR COEFF	0.006967		0.009310
			EFFICIENCY	99.70		99.90
11	7	4	1	0.174738	3	0.129075
			3	0.173680	5	0.136729
			5	0.179132	6	0.096547
			7	0.472450	7	0.724915
			BIAS CORR	0.822420		
			VAR COEFF	0.006995		0.009323
			EFFICIENCY	99.29		99.77
11	7	3	1	0.177301	3	0.129649
			3	0.249045	5	0.185436
			7	0.573654	7	0.774081
			BIAS CORR	0.823292		
			VAR COEFF	0.007107		0.009337
			EFFICIENCY	97.73		99.61
11	7	2	2	0.338779	4	0.241799
			7	0.661221	7	0.834491
			BIAS CORR	0.854517		
			VAR COEFF	0.007539		0.009440
			EFFICIENCY	92.13		98.53
11	7	1	7	1.000000	7	1.031256

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.969692		
			VAR COEFF	0.009266		0.009855
			EFFICIENCY	74.96		94.38
11	6		1	0.159460	1	0.020596
			2	0.091558	2	0.047717
			3	0.081046	3	0.051804
			4	0.096409	4	0.095625
			5	0.089127	5	0.096605
			6	0.482400	6	0.839159
			BIAS CORR	0.786843		
			VAR COEFF	0.007460		0.010917
			EFFICIENCY	100.00		100.00
			EFF(M/N)	77.65		53.66
			1	0.159609	2	0.063438
			2	0.092304	3	0.051751
			3	0.079987	4	0.095726
			4	0.138352	5	0.096435
			6	0.529748	6	0.839653
			BIAS CORR	0.786925		
11	6		VAR COEFF	0.007473		0.010922
			EFFICIENCY	99.82		99.96
			1	0.159912	2	0.083539
			2	0.123624	4	0.126235
			4	0.185004	5	0.095369
			6	0.531459	6	0.841108
			BIAS CORR	0.787751		
			VAR COEFF	0.007491		0.010930
			EFFICIENCY	99.59		99.89
			1	0.189870	2	0.083669
			3	0.222220	4	0.170347
			6	0.587910	6	0.891996
			BIAS CORR	0.789797		
			VAR COEFF	0.007565		0.010945
			EFFICIENCY	98.61		99.75
11	6	2	1	0.263501	4	0.231914
			6	0.736499	6	0.846589

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.802331		
				0.007902		0.011006
				94.41		99.19
11	6	1	6	1.000000	6	1.097312
				0.911318		
				0.009386		0.011302
				79.48		96.60
11	5		1	0.174836	1	0.026353
			2	0.095025	2	0.048237
			3	0.097535	3	0.080160
			4	0.094499	4	0.094996
			5	0.538104	5	0.967002
				0.749972		
				0.008145		0.013214
				100.00		100.00
				EFF (M/N)		44.33
11	5		1	0.175267	2	0.068366
			2	0.094921	3	0.080113
			3	0.138801	4	0.095126
			5	0.591011	5	0.967436
				0.750259		
				0.008163		0.013222
				99.78		99.94
11	5		1	0.205104	2	0.099526
			3	0.200882	4	0.142398
			5	0.594013	5	0.968126
				0.752459		
				0.008204		0.013239
				99.28		99.81
11	5	2	1	0.259213	3	0.178897
			5	0.740787	5	1.022831
				0.760252		
				0.008430		0.013267
				96.61		99.60
11	5	1	5	1.000000	5	1.173542



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				83.24		0.013476
						98.05
11	4	4	1	0.194632	1	0.031646
			2	0.107998	2	0.064644
			3	0.104224	3	0.091670
			4	0.593145	4	1.112336
11	4	3	1	0.195177	2	0.088828
			2	0.148914	3	0.091620
			4	0.655909	4	1.113042
11	4	2	1	0.259208	2	0.124483
			4	0.740792	4	1.167939
11	4	1	4	1.000000	4	1.267281
11	3	3	1	0.225638	1	0.042323
			2	0.123282	2	0.083372
			3	0.651080	3	1.290538
11	3	2	1	0.264783	2	0.115737
			3	0.735217	3	1.291490

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
11	3	1		BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.659572		0.022801
				0.010642		99.91
				99.35		
11	3	1	3	1.000000	3	1.393016
				BIAS CORR		
				0.717867		
				VAR COEFF		
				0.011791		0.022880
				EFFICIENCY		99.57
11	2	1	1	0.279356	1	0.061910
			2	0.720644	2	1.539069
				BIAS CORR		
				0.592843		
				VAR COEFF		0.035562
				0.013169		100.00
				EFFICIENCY		100.00
				EFF(M/N)		16.47
11	2	1	2	1.000000	2	1.588000
				BIAS CORR		
				0.629723		
				VAR COEFF		0.035606
				0.014120		99.88
				EFFICIENCY		
11	1	1	1	1.000000	1	2.009218
				BIAS CORR		
				0.497706		
				VAR COEFF		0.078705
				0.015496		100.00
				EFFICIENCY		100.00
				EFF(M/N)		7.44
12	12	12	1	0.117717	1	0.010034
			2	0.064181	2	0.020041
			3	0.062659	3	0.029337
			4	0.063645	4	0.039007
			5	0.066577	5	0.048365
			6	0.069364	6	0.059399
			7	0.074035	7	0.070172
			8	0.078277	8	0.083820
			9	0.084471	9	0.098580
			10	0.091492	10	0.118218
			11	0.101728	11	0.145351
			12	0.125855	12	0.215946
				BIAS CORR		
				0.929547		
				VAR COEFF		0.005307
				0.005307		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 12)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.118177	2	0.027753
			2	0.062164	3	0.029229
			3	0.068301	4	0.039197
			4	0.055319	5	0.048053
			5	0.104572	6	0.059829
			7	0.114377	7	0.069710
			8	0.065693	8	0.084261
			9	0.098491	9	0.098307
			10	0.082139	10	0.118387
			11	0.105282	11	0.145335
			12	0.125485	12	0.216035
				BIAS CORR		
				VAR COEFF		0.005358
				EFFICIENCY		99.89
12	12	10	1	0.117395	2	0.038901
			2	0.067881	4	0.057921
			3	0.052607	5	0.044764
			4	0.102623	6	0.064478
			6	0.139030	7	0.063558
			8	0.128708	8	0.090939
			9	0.061698	9	0.093179
			10	0.106688	10	0.121001
			11	0.096463	11	0.144591
			12	0.126908	12	0.216222
				BIAS CORR		
				VAR COEFF		0.005360
				EFFICIENCY		99.94
12	12	9	1	0.118690	2	0.038751
			2	0.059912	4	0.074749
			3	0.093685	6	0.091007
			5	0.136820	7	0.055739
			7	0.147648	8	0.101887
			9	0.135565	9	0.082551
			10	0.074156	10	0.127607
			11	0.108271	11	0.142508
			12	0.125254	12	0.216523

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.929776		
				0.005322		0.005562
				99.72		99.89
12	12	6	1	0.117454	2	0.038333
			2	0.087711	4	0.080535
			4	0.134706	6	0.117912
			6	0.140402	8	0.131441
			8	0.162393	9	0.077533
			10	0.134381	10	0.131962
			11	0.095389	11	0.140739
			12	0.127361	12	0.217092
				BIAS CORR		
				0.930018		
				0.005329		0.005367
				99.58		99.92
12	12	7	1	0.137292	3	0.069695
			3	0.137401	5	0.100986
			5	0.139216	7	0.141609
			7	0.149267	9	0.149693
			9	0.178430	10	0.103884
			11	0.137681	11	0.151155
			12	0.125712	12	0.215795
				BIAS CORR		
				0.930670		
				0.005349		0.005372
				99.23		99.70
12	12	8	1	0.134757	4	0.109948
			4	0.161951	6	0.119493
			6	0.143141	8	0.172751
			8	0.164991	10	0.167145
			10	0.198538	11	0.140299
			12	0.157072	12	0.218098
				BIAS CORR		
				0.931669		
				0.005406		0.005388
				98.16		99.42
12	12		1	0.156208	5	0.157271
			4	0.246655	7	0.141751
			8	0.234213	9	0.211291
			10	0.194013	11	0.193469

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDEN STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

L	M	L	I	LOCATION		I	SCALE	
12	12	N	12	0.190710		12	0.217553	
			BIAS CORR	0.732487				
			VAN CORR	0.005464			0.005464	
			EFFICIENCY	97.13			97.13	
			1	0.132493		5	0.226105	
			5	0.219467		9	0.279467	
			9	0.329403		11	0.194552	
			12	0.144574		12	0.217079	
			BIAS CORR	0.220972				
			VAN CORR	0.005476			0.005465	
			EFFICIENCY	98.64			97.14	
12	12	N	7	0.244554		6	0.303474	
			9	0.251743		10	0.181036	
			11	0.217100		12	0.264447	
			BIAS CORR	0.431301				
			VAN CORR	0.005451			0.005461	
			EFFICIENCY	87.15			95.54	
			4	0.199166		8	0.345174	
			1	0.156412		12	0.156412	
			BIAS CORR	0.446163				
			VAN CORR	0.006361			0.006361	
			EFFICIENCY	81.86			88.12	
12	12	N	8	0.200000		10	0.200000	
			BIAS CORR	0.477117				
			VAN CORR	0.006462			0.006462	
			EFFICIENCY	62.03			62.10	
			1	0.171743		1	0.011017	
			2	0.063401		2	0.020911	
			3	0.044126		3	0.016111	
			4	0.013607		4	0.015237	
			5	0.015177		5	0.064014	
			6	0.013743		6	0.061274	
12	12	N	7	0.041146		7	0.069134	
			8	0.014004		8	0.060957	
			9	0.000201		9	0.111811	
			10	0.041074		10	0.124741	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	I	LOCATION		SCALE	
			I		I	
11	11	1	11	0.296796	11	0.244755
			BIAS CORR	0.496796		
			VAN CORR	0.003464		0.003467
			EFFICIENCY	100.00		100.00
			EFFIM/41	97.13		91.67
12	11	1	1	0.171675	2	0.079473
			2	0.063607	3	0.03170
			3	0.071517	4	0.035461
			4	0.053878	5	0.031774
			5	0.104780	6	0.051750
			7	0.170337	7	0.080400
			8	0.063704	8	0.061443
			9	0.103301	9	0.113515
			10	0.087449	10	0.174405
			11	0.209745	11	0.244746
			BIAS CORR	0.464961		
12	11	4	VAN CORR	0.003464		0.003467
			EFFICIENCY	99.71		91.99
12	11	4	1	0.171701	2	0.079481
			2	0.063607	3	0.031708
			3	0.071508	4	0.035467
			4	0.117777	5	0.054467
			5	0.178045	6	0.094471
			6	0.044785	7	0.071447
			7	0.113553	8	0.122115
			8	0.074466	9	0.113001
			10	0.211064	10	0.185715
			11	0.207745	11	0.244746
			BIAS CORR	0.464961		
12	11	6	VAN CORR	0.003464		0.003467
			EFFICIENCY	99.87		99.99
12	11	6	1	0.177161	2	0.077714
			2	0.061511	3	0.037111
			3	0.076171	4	0.077750
			4	0.151075	5	0.177075
			5	0.167345	6	0.064516
			6	0.104071	7	0.119174
			7	0.075205	8	0.115778
12	11	6	11	0.217467	11	0.184717

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
MULTIPL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 15)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION		I	SCALE	
				BIAS CORR	VAR CORR		BIAS CORR	VAR CORR
12	11	7	1	0.007078	0.005477	3	0.018497	0.005493
			2	0.006785	0.005477	4	0.017417	0.005493
			3	0.006278	0.005477	5	0.016496	0.005493
			6	0.0141546	0.005477	6	0.061470	0.005493
			7	0.0157725	0.005477	7	0.137774	0.005493
			8	0.0191905	0.005477	10	0.115614	0.005493
			11	0.0247231	0.005477	11	0.149177	0.005493
				BIAS CORR	0.004915			0.005493
				VAR CORR	0.005487			0.005493
				EFFICIENCY	97.54			97.87
12	11	8	1	0.0151781	0.005487	3	0.075417	0.005487
			2	0.0135466	0.005487	4	0.117493	0.005487
			3	0.0125467	0.005487	5	0.156706	0.005487
			4	0.0134071	0.005487	6	0.147377	0.005487
			5	0.0153319	0.005487	10	0.111377	0.005487
			11	0.0247476	0.005487	11	0.147476	0.005487
				BIAS CORR	0.007978			0.005487
				VAR CORR	0.005487			0.005487
				EFFICIENCY	97.75			97.75
12	11	9	1	0.0197578	0.005487	4	0.175536	0.005487
			2	0.0178700	0.005487	5	0.178817	0.005487
			3	0.0165491	0.005487	6	0.180088	0.005487
			4	0.0181777	0.005487	10	0.101467	0.005487
			11	0.0244304	0.005487	11	0.149136	0.005487
				BIAS CORR	0.007889			0.005487
				VAR CORR	0.005487			0.005487
				EFFICIENCY	98.11			97.79
12	11	10	1	0.0161657	0.005487	5	0.171488	0.005487
			2	0.0155155	0.005487	6	0.158847	0.005487
			3	0.0141886	0.005487	7	0.174549	0.005487
			11	0.0244617	0.005487	11	0.144587	0.005487
				BIAS CORR	0.007384			0.005487
				VAR CORR	0.005487			0.005487
				EFFICIENCY	96.59			96.71

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	K	L	I	LOCATION	I	SCALE
12	11	2	2	0.269584	5	0.247514
			7	0.399745	9	0.303629
			11	0.336700	11	0.400113
			BIAS CORR	0.936983		
			VAN COEFF	0.005953		0.005953
12	11	2		91.79		91.64
			4	0.481368	7	0.431754
			10	0.518637	11	0.497455
			BIAS CORR	0.947263		
			VAN COEFF	0.004863		0.004863
12	11	2		83.29		83.79
		1	4	1.000000	10	0.894413
			BIAS CORR	0.997217		
			VAN COEFF	0.004956		0.004956
			EFFICIENCY	83.81		86.15
12	13	1	1	0.1175154	1	0.111546
			2	0.0706807	2	0.071867
			3	0.050977	3	0.071607
			4	0.045077	4	0.074436
			5	0.045916	5	0.075734
			6	0.160861	6	0.117537
			7	0.056750	7	0.055757
			8	0.079371	8	0.127766
			9	0.078975	9	0.097401
				0.279831	10	0.163807
			BIAS CORR	0.887884		
			VAN COEFF	0.008663		0.008663
			EFFICIENCY	100.00		100.00
12	13	1		93.68		93.75
			1	0.1175797	1	0.111541
			2	0.071784	2	0.070151
			3	0.056160	3	0.070431
			4	0.107970	4	0.081575
			5	0.117466	5	0.124841
			6	0.047489	6	0.047489
			7	0.110767	7	0.131371



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

L	M	L	I	LOCATION		SCALE	
				I		I	
12	12	9	1	0.066901		9	0.094231
			10	0.205044		10	0.465305
				0.003189			
				0.009668			0.006439
				99.95			100.00
			1	0.125078		1	0.011457
			2	0.071157		2	0.036071
			3	0.051576		4	0.075733
			4	0.117156		6	0.177756
			4	0.151077		7	0.038796
12	12	9	4	0.136957		6	0.135457
			7	0.061903		9	0.091177
			10	0.287903		10	0.466660
				0.003780			
				0.005671			0.006439
				99.90			99.90
			1	0.129097		2	0.044927
			2	0.078807		4	0.095085
			3	0.065654		6	0.177079
			4	0.116631		7	0.038152
12	12	9	5	0.157807		8	0.125413
			4	0.147206		9	0.099751
			10	0.115704		10	0.466410
				0.002519			
				0.005677			0.006439
				99.79			99.79
			1	0.129134		2	0.044939
			2	0.077703		4	0.095087
			3	0.065663		6	0.176907
			4	0.1157657		8	0.124130
12	12	9	4	0.115063		9	0.087571
			10	0.115174		10	0.466758
				0.001701			
				0.005687			0.006439
				99.79			99.79
			1	0.129134		2	0.044939
			2	0.077703		4	0.095087
			3	0.065663		6	0.176907
			4	0.115063		8	0.124130
			10	0.115174		10	0.466758
12	12	9	1	0.144064		2	0.041576
			4	0.117365		4	0.040976

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	I	J	LOCATION		SCALE	
11	11	1	6	0.192805	6	0.144542	
			8	0.173046	8	0.201853	
			10	0.317797	10	0.308101	
			BIAS CORR	0.088244			
			VAR CORR	0.005737		0.006456	
			EFFICIENCY	98.84		99.74	
12	12	1	4	0.145533	4	0.131575	
			6	0.262046	6	0.148350	
			8	0.292934	8	0.207914	
			10	0.314827	10	0.309303	
			BIAS CORR	0.088617			
			VAR CORR	0.003747		0.016471	
			EFFICIENCY	97.72		99.39	
12	12	1	4	0.213084	4	0.174616	
			6	0.390444	6	0.279866	
			10	0.494417	10	0.312410	
			BIAS CORR	0.076457			
			VAR CORR	0.005440		0.006133	
			EFFICIENCY	94.58		96.36	
12	12	1	4	0.401364	4	0.311461	
			10	0.618637	10	0.611441	
			BIAS CORR	0.047237			
			VAR CORR	0.025543		0.004676	
			EFFICIENCY	86.32		96.45	
12	12	1	4	1.000000	10	0.898815	
			BIAS CORR	0.492217			
			VAR CORR	0.008554		0.001472	
			EFFICIENCY	66.71		88.47	
12	12	1	1	0.131724	1	0.014424	
			2	0.086637	2	0.018362	
			3	0.086767	3	0.020519	
			4	0.019664	4	0.000718	
			5	0.120143	5	0.144995	
			6	0.014635	6	0.005492	
			7	0.117149	7	0.144768	
			8	0.061937	8	0.071528	

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
11	9		9	0.340317	9	0.580133
			BIAS CORR	0.007731		
			VAN COEFF	0.005913		0.007166
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.76		74.70
12	9		1	0.111924	1	0.014456
			2	0.065680	2	0.010174
			3	0.007259	3	0.000950
			4	0.037197	4	-0.007347
			5	0.130122	5	0.147111
			7	0.132032	7	0.140196
			8	0.054073	8	0.070613
			9	0.392742	9	0.982101
			BIAS CORR	0.007731		
			VAN COEFF	0.005913		0.007166
			EFFICIENCY	99.77		100.00
12	7		1	0.132727	1	0.114437
			2	0.063296	2	0.010131
			3	0.103320	3	0.044073
			4	0.156097	4	0.142130
			7	0.136717	7	0.146035
			8	0.047996	8	0.071107
			9	0.346781	9	0.979936
			BIAS CORR	0.005250		
			VAN COEFF	0.005716		0.007166
			EFFICIENCY	99.79		100.00
12	5		1	0.132799	1	0.114401
			2	0.063620	2	0.010131
			3	0.104447	3	0.142093
			4	0.157966	4	0.144039
			7	0.141125	7	0.146036
			8	0.047357	8	0.071478
			9	0.346781	9	0.979936
			BIAS CORR	0.004095		
			VAN COEFF	0.005717		0.007166
			EFFICIENCY	99.47		99.70
12	3		1	0.192000	3	0.009516
			3	0.146144	3	0.142792

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	LOCATION		SCALE	
			I		I	
12	4	1	5	0.157969	7	0.148793
			7	0.162501	8	0.070434
			9	0.381377	9	0.081382
			BIAS CORR			
					0.007171	
			VAR CORR		99.90	
			EFFICIENCY			
12	4	2	1	0.194091	3	0.089595
			3	0.146440	5	0.144713
			5	0.238243	7	0.183471
			7	0.461290	9	0.314916
			BIAS CORR			
					0.007178	
			EFFICIENCY		99.90	
12	4	3	1	0.191490	5	0.214343
			5	0.338410	7	0.183049
			7	0.470100	9	0.420046
			BIAS CORR			
					0.007226	
			EFFICIENCY		99.94	
12	4	4	3	0.408120	5	0.304251
			7	0.521880	9	0.712764
			BIAS CORR			
					0.007315	
			EFFICIENCY		97.91	
12	4	5	5	1.000000	9	0.723101
			BIAS CORR			
					0.008013	
			EFFICIENCY		99.91	
12	4	6	1	0.137089	1	0.013436
			2	0.087082	2	0.042084
			3	0.050461	3	0.004316
			4	0.119632	4	0.124618
			5	0.031785	5	-0.004722
			6	0.115103	6	0.145419
			7	0.083793	7	0.066728
			8	0.404971	8	0.684316

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.830619		
				0.006223		0.008087
				100.00		100.00
				85.28		66.24
12	6	7	1	0.136990	1	0.013447
			2	0.082622	2	0.043775
			3	0.045272	4	0.132334
			4	0.130945	5	-0.007006
			6	0.132347	6	0.145990
			7	0.052196	7	0.065993
			8	0.408627	8	0.684075
				BIAS CORR		
				0.030851		
				VAR COEFF		0.009057
				EFFICIENCY		100.00
				99.98		
12	6	6	1	0.136072	1	0.013469
			2	0.084484	2	0.043761
			3	0.044098	4	0.129116
			4	0.135723	6	0.141992
			6	0.160765	7	0.067321
			8	0.438104	8	0.684974
				BIAS CORR		
				0.010817		
				VAR COEFF		0.008047
				EFFICIENCY		100.00
				99.91		
12	6	5	1	0.136091	2	0.034066
			2	0.101591	4	0.129094
			4	0.161356	6	0.142296
			6	0.160737	7	0.066516
			8	0.439465	8	0.684498
				BIAS CORR		
				0.031489		
				VAR COEFF		0.008049
				EFFICIENCY		99.97
12	6	4	1	0.171423	2	0.053611
			4	0.214887	4	0.131066
			6	0.161283	6	0.124265
			8	0.444608	8	0.712660
				BIAS CORR		
				0.036296		
				VAR COEFF		0.009979

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	I	I	LOCATION		SCALE	
				EFFICIENCY		EFFICIENCY	
12	5	1	1	0.181289	4	0.170694	
			4	0.288627	6	0.174079	
			8	0.530084	8	0.720351	
			BIAS CORR	0.836239			
			VAR COEFF	0.006366		0.008110	
			EFFICIENCY	97.75		99.61	
12	6	1	2	0.337391	4	0.249165	
			5	0.662609	6	0.814699	
			BIAS CORR	0.865120			
			VAR COEFF	0.006830		0.007203	
			EFFICIENCY	91.11		99.58	
12	8	1	8	1.000000	8	1.007999	
			BIAS CORR	0.997217			
			VAR COEFF	0.000956		0.000693	
			EFFICIENCY	72.73		91.66	
12	7	2	1	0.147671	1	0.019197	
			2	0.072435	2	0.021321	
			3	0.046314	3	0.086195	
			4	0.047905	4	0.011967	
			5	0.108267	5	0.128458	
			6	0.070068	6	0.073651	
			7	0.455339	7	0.789497	
			BIAS CORR	0.901148			
			VAR COEFF	0.007613		0.005292	
			EFFICIENCY	100.00		100.00	
			EFF (M/4)	00.29		97.65	
12	7	3	1	0.147826	1	0.019193	
			2	0.072137	2	0.021236	
			3	0.119153	3	0.091403	
			4	0.135984	4	0.135164	
			5	0.069985	5	0.072502	
			6	0.499316	6	0.789441	
			BIAS CORR	0.801942			
			VAR COEFF	0.006617		0.005293	
			EFFICIENCY	99.94		100.00	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
12	7	1	1	0.148199	1	0.021564
			2	0.070729	3	0.105651
			3	0.120878	5	0.135968
			5	0.166985	6	0.070984
			7	0.493201	7	0.786560
			BIAS CORR	0.601554		
			VAR COEFF	0.006623		0.009275
			EFFICIENCY	99.85		99.98
12	7	4	1	0.170098	1	0.029368
			3	0.167144	3	0.106456
			5	0.167042	5	0.169533
			7	0.495717	7	0.821450
			BIAS CORR	0.603507		
			VAR COEFF	0.006644		0.009371
			EFFICIENCY	99.53		99.90
12	7	7	1	0.172024	3	0.172024
			3	0.169537	5	0.169537
			7	0.592933	7	0.824433
			BIAS CORR	0.604537		
			VAR COEFF	0.006732		0.009313
			EFFICIENCY	98.74		99.91
12	7	7	1	0.321721	3	0.191177
			7	0.676274	7	0.923117
			BIAS CORR	0.814194		
			VAR COEFF	0.007125		0.009400
			EFFICIENCY	97.91		98.96
12	7	1	7	1.000000	7	1.000000
			BIAS CORR	0.930199		
			VAR COEFF	0.000556		0.007277
			EFFICIENCY	77.29		95.58
12	6	1	1	0.196644	1	0.018341
			2	0.071082	2	0.042511
			3	0.070780	3	0.026018
			4	0.098720	4	0.101893
			5	0.079092	5	0.080500

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

L	M	I	J	LOCATION		SCALE	
11	6		6	0.504183	6	0.893165	
			BIAS CORR	0.769000			
			VAR CORR	0.007113		0.010914	
			EFFICIENCY	100.00		100.00	
			EFF(M/6)	74.61		49.09	
			1	0.156651	1	0.015312	
			2	0.492110	2	0.063720	
			3	0.069036	4	0.123400	
			4	0.135420	5	0.079125	
			5	0.946787	6	0.994656	
12	6			0.769136			
			BIAS CORR	0.769136			
			VAR CORR	0.007123		0.010917	
			EFFICIENCY	99.07		99.97	
			1	0.156655	2	0.077741	
			2	0.118914	4	0.123499	
			4	0.175619	5	0.078881	
			6	0.948612	6	0.995100	
				0.769092			
			BIAS CORR	0.769092			
			VAR CORR	0.007135		0.010921	
			EFFICIENCY	99.70		99.94	
13	6		1	0.156691	2	0.077859	
			2	0.209710	4	0.154503	
			4	0.694184	6	0.37723	
				0.771877			
			BIAS CORR	0.771877			
			VAR CORR	0.007206		0.010930	
			EFFICIENCY	98.72		99.09	
			1	0.253812	4	0.217269	
			4	0.746108	6	0.941674	
				0.781594			
			BIAS CORR	0.781594			
			VAR CORR	0.007401		0.010960	
			EFFICIENCY	95.09		97.40	
17	6		4	1.000000	6	1.125697	
				0.884480			
			BIAS CORR	0.884480			
			VAR CORR	0.008775		0.011217	
			EFFICIENCY	81.06		97.45	



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
12	5	4	1	0.172717	1	0.025178
			2	0.090591	2	0.042728
			3	0.094994	3	0.078227
			4	0.087769	4	0.084926
			5	0.553929	5	1.014826
			BIAS CORR	0.733160		
			VAR COEFF	0.007775		0.013212
			EFFICIENCY	100.00		100.00
			EFF(M/N)	68.26		40.55
12	5	4	1	0.173108	2	0.062039
			2	0.090343	3	0.078172
			3	0.133032	4	0.085102
			5	0.603517	5	1.015163
			BIAS CORR	0.733456		
			VAR COEFF	0.007789		0.013218
			EFFICIENCY	99.82		99.95
12	5	2	1	0.201281	2	0.061759
			3	0.192290	3	0.114936
			5	0.606430	5	1.061249
			BIAS CORR	0.735511		
			VAR COEFF	0.007824		0.013232
			EFFICIENCY	99.37		99.85
12	5	2	1	0.251932	3	0.167089
			5	0.748068	5	1.065017
			BIAS CORR	0.742844		
			VAR COEFF	0.008016		0.013253
			EFFICIENCY	96.98		99.69
12	5	1	5	1.000000	5	1.206261
			BIAS CORR	0.829008		
			VAR COEFF	0.009224		0.013422
			EFFICIENCY	84.28		98.43
12	4	4	1	0.192119	1	0.029450
			2	0.104625	2	0.060423
			3	0.099289	3	0.084498
			4	0.603968	4	1.155855
			BIAS CORR	0.692070		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.016729
				EFFICIENCY		100.00
				EFF(M/N)		32.02
12	4	2	1	0.192584	2	0.083420
			2	0.143290	3	0.084436
			4	0.664125	4	1.156476
				BIAS CORR		
				VAR COEFF		0.016738
				EFFICIENCY		99.94
12	4	2	1	0.253614	2	0.116022
			4	0.746386	4	1.207317
				BIAS CORR		
				VAR COEFF		0.016756
				EFFICIENCY		99.84
12	4	1	4	1.000000	4	1.300166
				BIAS CORR		
				VAR COEFF		0.016867
				EFFICIENCY		99.18
12	3	2	1	0.223040	1	0.039635
			2	0.119274	2	0.077656
			3	0.657686	3	1.231234
				BIAS CORR		
				VAR COEFF		0.022779
				EFFICIENCY		100.00
				EFF(M/N)		23.52
12	3	2	1	0.260611	2	0.100085
			3	0.739389	3	1.332052
				BIAS CORR		
				VAR COEFF		0.022796
				EFFICIENCY		99.93
12	3	1	3	1.000000	3	1.426985
				BIAS CORR		
				VAR COEFF		0.022861
				EFFICIENCY		99.64

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	0.276425	1	0.057912
			2	0.723575	2	1.578844
			BIAS CORR	0.579987		
			VAR COEFF	0.012601		0.035561
			EFFICIENCY	100.00		100.00
			EFF(M/N)	42.12		15.06
12	2	1	2	1.000000	2	1.624664
			BIAS CORR	0.615512		
			VAR COEFF	0.013486		0.035598
			EFFICIENCY	93.44		99.90
12	1	1	1	1.000000	1	2.003400
			BIAS CORR	0.486996		
			VAR COEFF	0.018666		0.079715
			EFFICIENCY	100.00		100.00
			EFF(M/N)	28.43		6.81
12	13	13	1	0.111998	1	0.008711
			2	0.060156	2	0.017472
			3	0.057183	3	0.024974
			4	0.059729	4	0.034197
			5	0.058824	5	0.040642
			6	0.064188	6	0.051082
			7	0.065117	7	0.058941
			8	0.071042	8	0.070627
			9	0.072671	9	0.080625
			10	0.080909	10	0.096345
			11	0.085242	11	0.112491
			12	0.095564	12	0.138077
			13	0.117377	13	0.202737
			BIAS CORR	0.929581		
			VAR COEFF	0.004896		0.004935
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
12	13	12	1	0.148898	1	0.018097
			2	-0.251453	2	-0.051113
			3	0.255238	3	0.242516
			5	1.569778	4	-0.365820
			6	-2.336344	5	0.520600

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			7	1.950569	6	-0.397366
			8	-1.735762	7	0.509239
			9	2.119035	8	-0.501031
			10	-1.815373	9	0.487919
			11	1.225056	11	0.225778
			12	-0.296281	12	0.032901
			13	0.167139	13	0.213922
			BIAS CORR	0.914635		
			VAR COEFF	0.004694		0.004866
			EFFICIENCY	104.31		101.42
11	13	11	1	0.128412	1	0.019020
			2	-0.083526	2	-0.057666
			3	0.162149	3	0.263374
			5	0.764746	4	-0.403919
			6	-1.028948	5	0.566738
			7	0.925932	6	-0.441345
			8	-0.764297	7	0.554744
			9	1.023153	8	-0.558240
			10	-0.799001	9	0.523452
			11	0.556154	11	0.247924
			13	0.115227	13	0.221930
			BIAS CORR	0.925815		
			VAR COEFF	0.004779		0.004869
			EFFICIENCY	102.45		101.36
11	13	10	1	0.108652	2	0.074696
			3	0.110339	3	-0.172293
			5	0.626875	4	0.440126
			6	-0.804194	5	-0.516072
			7	0.747291	6	0.382638
			8	-0.590777	8	0.414772
			9	0.827002	9	-0.524498
			10	-0.618582	10	0.492934
			11	0.472301	12	0.159455
			13	0.121094	13	0.189964
			BIAS CORR	0.924309		
			VAR COEFF	0.004798		0.004871
			EFFICIENCY	102.06		101.32
13	13	9	1	0.134967	3	0.209625

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			5	0.721945	4	-0.362875
			6	-0.833652	5	0.518500
			7	0.767525	6	-0.394912
			8	-0.613177	7	0.503803
			9	0.863323	8	-0.490592
			10	-0.653917	9	0.481374
			11	0.491264	11	0.248196
			13	0.121723	13	0.224237
			BIAS CORR	0.930943		
			VAR COEFF	0.004856		0.004881
			EFFICIENCY	100.83		101.12
12	13	6	1	0.110388	4	0.236699
			2	0.078136	5	-0.291888
			4	0.127351	6	0.263942
			6	0.131583	8	0.267722
			8	0.139221	9	-0.256662
			10	0.172061	10	0.348439
			12	0.125262	12	0.169896
			13	0.115197	13	0.195605
			BIAS CORR	0.929170		
			VAR COEFF	0.004893		0.004910
			EFFICIENCY	100.06		100.50
12	13	7	1	0.128568	3	0.056117
			3	0.119255	5	0.098549
			5	0.135968	7	0.114051
			7	0.129993	9	0.171707
			9	0.160420	11	0.163697
			11	0.182825	12	0.125019
			13	0.142971	13	0.204540
			BIAS CORR	0.928209		
			VAR COEFF	0.004919		0.004934
			EFFICIENCY	99.54		100.02
13	13	6	1	0.129812	4	0.096017
			3	0.117632	6	0.110337
			5	0.199760	8	0.136924
			9	0.227319	10	0.206233
			11	0.181023	12	0.179866
			13	0.144454	13	0.201338

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			BIAS CORR	0.928405		
			VAR COEFF	0.004959		0.004949
			EFFICIENCY	98.75		99.72
13	13	5	1	0.158949	4	0.144865
			5	0.279583	8	0.197441
			9	0.231338	10	0.202072
			11	0.184135	12	0.182022
			13	0.145993	13	0.202867
			BIAS CORR	0.935832		
			VAR COEFF	0.005026		0.004979
			EFFICIENCY	97.43		99.11
13	13	4	1	0.163121	6	0.255164
			5	0.288911	10	0.274290
			9	0.356143	12	0.181664
			13	0.191825	13	0.204606
			BIAS CORR	0.924561		
			VAR COEFF	0.005166		0.005033
			EFFICIENCY	94.77		98.06
13	13	3	2	0.273449	7	0.327732
			8	0.417868	11	0.329321
			12	0.308683	13	0.250690
			BIAS CORR	0.937423		
			VAR COEFF	0.005494		0.005162
			EFFICIENCY	89.12		95.60
13	13	2	5	0.511384	9	0.551684
			11	0.488616	13	0.335399
			BIAS CORR	0.964095		
			VAR COEFF	0.006045		0.005604
			EFFICIENCY	81.01		88.07
13	13	1	8	1.000000	11	0.887607
			BIAS CORR	0.961021		
			VAR COEFF	0.007899		0.007101
			EFFICIENCY	61.99		69.50
13	12	12	1	0.115406	1	0.010159
			2	0.058851	2	0.013609

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			3	0.068326	3	0.044587
			4	0.043234	4	0.004064
			5	0.081814	5	0.083096
			6	0.048235	6	0.023139
			7	0.081254	7	0.090129
			8	0.054565	8	0.043031
			9	0.098244	9	0.130474
			10	0.061077	10	0.064315
			11	0.099393	11	0.143575
			12	0.189600	12	0.316476
			BIAS CORR	0.908464		
			VAR COEFF	0.005028		0.005350
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.38		92.24
12	12	11	1	0.140253	1	0.004413
			2	-0.143748	2	0.053715
			3	0.199723	3	-0.084433
			5	1.067198	4	0.246758
			6	-1.511647	5	-0.229625
			7	1.307423	6	0.342317
			8	-1.120733	7	-0.242993
			9	1.431272	8	0.274779
			10	-1.173123	10	0.293220
			11	0.841857	11	-0.064868
			12	-0.038475	12	0.371760
			BIAS CORR	0.892979		
			VAR COEFF	0.004933		0.005298
			EFFICIENCY	101.92		100.98
13	12	10	1	0.137085	1	-0.000086
			2	-0.119756	2	0.089789
			3	0.186225	3	-0.222449
			5	0.951715	4	0.551404
			6	-1.324567	5	-0.665655
			7	1.160630	6	0.472597
			8	-0.981848	8	0.511275
			9	1.274266	9	-0.692884
			10	-1.027752	10	0.594188
			11	0.744001	12	0.326007
			BIAS CORR	0.896164		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.004935 101.88 0.005227 102.37
12	12	9	1	0.125936	2	0.089719
			4	0.531892	3	-0.222436
			5	-0.731948	4	0.551376
			6	0.544133	5	-0.665617
			8	0.499106	6	0.472486
			9	-0.711235	8	0.511251
			10	0.704741	9	-0.692839
			11	-0.244985	10	0.594164
			12	0.282360	12	0.326009
				BIAS CORR		
				VAR COEFF		0.005227
				EFFICIENCY		102.37
12	12	8	1	0.137272	3	-0.114790
			4	0.337701	4	0.468437
			5	-0.332751	5	-0.549926
			6	0.313331	6	0.411023
			8	0.316708	8	0.436267
			9	-0.341735	9	-0.553340
			10	0.363031	10	0.521377
			12	0.206443	12	0.334730
				BIAS CORR		
				VAR COEFF		0.005264
				EFFICIENCY		101.64
12	12	7	1	0.113220	4	0.283740
			2	0.079961	5	-0.375743
			4	0.130064	6	0.319489
			6	0.136150	8	0.320899
			8	0.143295	9	-0.339069
			10	0.175968	10	0.407244
			12	0.221341	12	0.346206
				BIAS CORR		
				VAR COEFF		0.005291
				EFFICIENCY		101.12
12	12	6	1	0.146223	4	0.155362
			4	0.172377	5	-0.117224



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			6	0.135508	6	0.176143
			8	0.145533	8	0.154993
			10	0.178031	10	0.229823
			12	0.222330	12	0.359800
			BIAS CORR	0.912879		
			VAR COEFF	0.005054		0.005338
			EFFICIENCY	99.48		100.23
			1	0.147116	4	0.102577
			4	0.233622	6	0.121579
13	12	5	8	0.220373	8	0.149062
			10	0.172962	10	0.220692
			12	0.225927	12	0.365863
			BIAS CORR	0.913457		
			VAR COEFF	0.005100		0.005356
			EFFICIENCY	98.59		99.90
			1	0.150041	4	0.156499
			4	0.236889	8	0.215898
			8	0.323435	10	0.216223
13	12	4	12	0.289635	12	0.369798
			BIAS CORR	0.908593		
			VAR COEFF	0.005193		0.005393
			EFFICIENCY	96.83		99.22
			2	0.273449	6	0.278096
			8	0.417868	10	0.295091
			12	0.308683	12	0.371049
			BIAS CORR	0.937423		
			VAR COEFF	0.005494		0.005454
13	12	3	EFFICIENCY	91.52		98.11
			5	0.511384	8	0.449917
			11	0.488616	12	0.472258
			BIAS CORR	0.964095		
			VAR COEFF	0.006045		0.005723
			EFFICIENCY	83.19		93.49
			8	1.000000	11	0.887607
			BIAS CORR	0.961021		
13	12	1	VAR COEFF	0.007899		0.007101

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				63.66		75.35
				EFFICIENCY		
12	11	11	1	0.117327	1	0.007325
			2	0.076808	2	0.043053
			3	0.018936	3	-0.042763
			4	0.140746	4	0.174411
			5	-0.027621	5	-0.107630
			6	0.143404	6	0.190901
			7	0.001656	7	-0.047041
			8	0.164132	8	0.237847
			9	-0.035508	9	-0.099680
			10	0.184797	10	0.285875
			11	0.215320	11	0.356728
			BIAS CORR	0.885088		
			VAR COEFF	0.005206		0.005877
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.05		83.98
12	11	12	1	0.137085	1	0.038277
			2	-0.119756	2	-0.194171
			3	0.186225	3	0.164893
			5	0.951715	5	1.089336
			6	-1.324567	6	-1.598883
			7	1.160630	7	1.366074
			8	-0.981848	8	-1.162230
			9	1.274266	9	1.498168
			10	-1.027752	10	-1.197202
			11	0.744001	11	0.988635
			BIAS CORR	0.896164		
			VAR COEFF	0.004935		0.005468
			EFFICIENCY	105.49		107.47
13	11	9	1	0.108761	1	-0.081184
			3	0.112062	3	1.675498
			5	0.763537	4	-4.203447
			6	-1.017116	5	6.015272
			7	0.916239	6	-3.262454
			8	-0.743687	8	-3.109617
			9	1.005431	9	6.307093
			10	-0.780312	10	-4.702036
			11	0.635085	11	2.318025

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
13	11	8		BIAS CORR		
				VAR COEFF		0.005458
				EFFICIENCY		107.67
			1	0.891744	3	1.306137
			5	0.860820	4	-3.349549
			6	-1.048160	5	4.814351
			7	0.937683	6	-2.592492
			8	-0.767246	8	-2.457104
			9	1.043263	9	5.052796
			10	-0.817055	10	-3.728155
			11	0.655204	11	1.434517
13	11	7		BIAS CORR		
				VAR COEFF		0.005575
				EFFICIENCY		106.36
			1	0.898309	3	0.825750
			5	0.898309	4	-1.118278
			6	0.146106	5	0.982022
			7	-0.110367	6	-0.788974
			8	0.187236	8	1.082147
			9	0.176777	9	-0.813887
			10	0.240278	10	0.825756
			11	0.890379	11	0.825756
13	11	6		BIAS CORR		
				VAR COEFF		0.005580
				EFFICIENCY		105.32
			1	0.134180	3	0.303847
			5	0.125781	4	-0.243473
			6	0.146106	5	0.376170
			7	-0.110367	6	-0.181450
			8	0.187236	8	0.305984
			9	0.176777	9	0.474347
			10	0.240278	11	0.474347
			11	0.290800		
13	11	5		BIAS CORR		
				VAR COEFF		0.005771
				EFFICIENCY		101.92
			1	0.884077	3	0.249846
			5	0.884077	4	-0.169056
			6	0.055177	5	0.214241
			7	0.213142	6	0.213484
			8	0.237663	7	
			9		9	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			11	0.290080	11	0.472418
			BIAS CORR	0.888854		
			VAR COEFF	0.005222		0.005799
			EFFICIENCY	99.70		101.33
12	11	4	1	0.167005	5	0.170056
			5	0.296492	7	0.140277
			9	0.241967	9	0.197545
			11	0.294536	11	0.474639
			BIAS CORR	0.896156		
			VAR COEFF	0.005295		0.005831
			EFFICIENCY	98.33		100.78
12	11	-	1	0.175430	5	0.237049
			5	0.380363	9	0.269859
			11	0.444207	11	0.475095
			BIAS CORR	0.891834		
			VAR COEFF	0.005511		0.005877
			EFFICIENCY	94.48		99.99
12	11	2	5	0.511384	7	0.385989
			11	0.488616	11	0.575328
			BIAS CORR	0.964095		
			VAR COEFF	0.006045		0.006044
			EFFICIENCY	86.13		97.24
13	11	1	3	1.000000	11	0.887607
			BIAS CORR	0.961021		
			VAR COEFF	0.007899		0.007101
			EFFICIENCY	65.91		82.76
12	10	10	1	0.131896	1	0.023322
			2	0.019940	2	-0.060187
			3	0.215812	3	0.302415
			4	-0.210944	4	-0.445117
			5	0.391686	5	0.631678
			6	-0.216501	6	-0.441307
			7	0.351797	7	0.573942
			8	-0.284592	8	-0.549015
			9	0.519491	9	0.884740
			10	0.081416	10	0.122841

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.854224		
				0.005482		0.006696
				100.00		100.00
				89.32		73.71
12	10	9	1	0.108048	1	-0.005083
			2	0.145680	2	0.141045
			3	-0.225882	3	-0.391074
			4	0.656230	4	0.917567
			5	-0.750328	5	-1.158561
			6	0.546650	6	0.760796
			8	0.563385	8	0.789503
			9	-0.802232	9	-1.198548
			10	0.758448	10	1.155589
				BIAS CORR		
				0.879782		
				VAR COEFF		0.005967
				0.005191		112.22
				EFFICIENCY		
				105.61		
13	10	8	1	0.113455	2	0.136961
			2	0.070205	3	-0.390363
			4	0.372011	4	0.916112
			5	-0.452364	5	-1.156501
			6	0.392553	6	0.759686
			8	0.367332	8	0.788192
			9	-0.439201	9	-1.196122
			10	0.580008	10	1.154404
				BIAS CORR		
				0.871863		
				VAR COEFF		0.005967
				0.005257		112.21
				EFFICIENCY		
				104.29		
13	10	7	1	0.141730	3	-0.230644
			4	0.419858	4	0.802799
			5	-0.477349	5	-0.997704
			6	0.403614	6	0.676415
			8	0.382951	8	0.683562
			9	-0.467109	9	-1.000973
			10	0.596305	10	1.064908
				BIAS CORR		
				0.875698		
				VAR COEFF		0.006056
				0.005283		110.56
				EFFICIENCY		
				103.76		

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
12	10	6	1	0.120525	4	0.442252
			2	0.083409	5	-0.667129
			4	0.140801	6	0.504843
			6	0.152301	8	0.461094
			8	0.145712	9	-0.586955
			10	0.357252	10	0.866147
			BIAS CORR	0.865575		
			VAR COEFF	0.005355		0.006168
			EFFICIENCY	102.36		108.55
12	10	5	1	0.154991	4	0.224545
			4	0.184997	5	-0.226778
			6	0.151706	6	0.262337
			8	0.148058	8	0.175220
			10	0.360245	10	0.582055
			BIAS CORR	0.869900		
			VAR COEFF	0.005393		0.006314
			EFFICIENCY	101.65		106.05
12	10	4	1	0.157243	4	0.123086
			4	0.181321	6	0.157946
			6	0.229773	8	0.164232
			10	0.431662	10	0.575773
			BIAS CORR	0.869276		
			VAR COEFF	0.005446		0.006381
			EFFICIENCY	100.67		104.94
12	10	3	1	0.190366	4	0.193650
			6	0.366595	8	0.251553
			10	0.443039	10	0.574927
			BIAS CORR	0.878799		
			VAR COEFF	0.005587		0.006443
			EFFICIENCY	98.13		103.92
12	10	2	4	0.445944	6	0.339379
			10	0.554056	10	0.664025
			BIAS CORR	1.925609		
			VAR COEFF	0.006056		0.006510
			EFFICIENCY	90.52		102.85
12	10	1	8	1.000000	10	0.938313

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.961021				
				VAR COEFF	0.007899	0.007303			
				EFFICIENCY	69.40	91.68			
13	9	9	1	0.136895	1	0.031550			
			2	-0.020637	2	-0.120513			
			3	0.344360	3	0.494504			
			4	-0.447736	4	-0.798620			
			5	0.673829	5	1.052992			
			6	-0.474689	6	-0.827037			
			7	0.606299	7	0.953933			
			8	-0.609734	8	-1.034912			
			9	0.791413	9	1.269410			
				BIAS CORR	0.855983				
				VAR COEFF	0.005457		0.006638		
				EFFICIENCY	100.00		100.00		
				EFF(M/N)	89.73		74.34		
13	9	9	1	0.131156	2	-0.094924			
			3	0.324345	3	0.489929			
			4	-0.432819	4	-0.790385			
			5	0.656269	5	1.043260			
			6	-0.457802	6	-0.817436			
			7	0.587672	7	0.943508			
			8	-0.585071	8	-1.021103			
			9	0.776250	9	1.281890			
				BIAS CORR	0.854897				
				VAR COEFF	0.005458		0.006648		
				EFFICIENCY	99.97		99.85		
			13	9	7	1	0.142095	3	0.378265
						3	0.207372	4	-0.715512
4	-0.170836	5				0.955811			
5	0.272289	6				-0.732426			
7	0.213956	7				0.849748			
8	-0.183671	8				-0.895477			
9	0.518796	9				1.208085			
	BIAS CORR	0.845217							
	VAR COEFF	0.005575					0.006690		
	EFFICIENCY	97.88					99.23		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
11	9	0	1	0.144383	3	0.169287
			3	0.136966	4	-0.217632
			5	0.221544	5	0.396345
			6	-0.116831	6	-0.253232
			7	0.186765	7	0.255278
			9	0.427173	9	0.704120
			BIAS CORR	0.843783		
			VAR COEFF	0.005594		0.006975
			EFFICIENCY	97.55		95.17
13	9	0	1	0.145439	3	0.151003
			3	0.135343	4	-0.180646
			5	0.167391	5	0.260365
			7	0.135423	7	0.144819
			9	0.416404	9	0.681666
			BIAS CORR	0.842314		
			VAR COEFF	0.005609		0.007044
			EFFICIENCY	97.29		94.24
13	9	1	1	0.146781	5	0.322016
			3	0.133676	6	-0.201382
			5	0.233941	7	0.232148
			9	0.485601	9	0.693292
			BIAS CORR	0.842210		
			VAR COEFF	0.005652		0.007085
			EFFICIENCY	96.55		93.69
13	9	2	1	0.180208	5	0.227228
			5	0.325330	7	0.144062
			9	0.494462	9	0.675978
			BIAS CORR	0.849404		
			VAR COEFF	0.005738		0.007130
			EFFICIENCY	95.09		93.10
13	9	3	3	0.384901	5	0.296087
			9	0.615099	9	0.751719
			BIAS CORR	0.886178		
			VAR COEFF	0.006201		0.007179
			EFFICIENCY	88.00		92.47
13	9	1	8	1.000000	9	0.988421



TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.961021				
				VAR COEFF	0.007899	0.007794			
				EFFICIENCY	69.08	85.17			
13	8	8	1	0.131479	1	0.007519			
			2	0.098999	2	0.074502			
			3	-0.014111	3	-0.105458			
			4	0.215887	4	0.307057			
			5	-0.085386	5	-0.208191			
			6	0.202244	6	0.301022			
			7	-0.045974	7	-0.123791			
			8	0.496863	8	0.848039			
				BIAS CORR	0.815733				
				VAR COEFF	0.005911		0.007976		
				EFFICIENCY	100.00		100.00		
				EFF(M/N)	82.83		61.87		
			13	8	7	1	0.131583	2	0.080355
2	0.093657	3				-0.105716			
4	0.205799	4				0.307494			
5	-0.082064	5				-0.208760			
6	0.197831	6				0.301752			
7	-0.038761	7				-0.124783			
8	0.491955	8				0.848716			
	BIAS CORR	0.815399							
	VAR COEFF	0.005912					0.007977		
	EFFICIENCY	99.99					99.99		
13	8	6				1	0.132012	2	0.072630
						2	0.093950	3	-0.080432
						4	0.198375	4	0.268192
			5	-0.070903	5	-0.170952			
			6	0.175234	6	0.228886			
			8	0.471333	8	0.781305			
				BIAS CORR	0.815276				
				VAR COEFF	0.005913		0.007990		
				EFFICIENCY	99.97		99.83		
			13	8	5	1	0.132452	2	0.042027
						2	0.093837	4	0.218956
						4	0.166317	5	-0.164058

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
11	8	4	6	0.142487	6	0.228109
			8	0.464907	8	0.776602
			BIAS CORR	0.814291		
			VAR COEFF	0.005920		0.008005
			EFFICIENCY	99.86		99.64
			1	0.171381	4	0.250432
			4	0.216331	5	-0.164372
12	8	4	6	0.141724	6	0.227337
			8	0.470564	8	0.779306
			BIAS CORR	0.818676		
			VAR COEFF	0.005968		0.008019
			EFFICIENCY	99.06		99.47
			1	0.172365	4	0.176471
			4	0.280559	6	0.151722
13	8	4	8	0.547076	8	0.766578
			BIAS CORR	0.818871		
			VAR COEFF	0.006018		0.008054
			EFFICIENCY	98.23		99.03
			2	0.321455	4	0.244183
			8	0.678545	8	0.849613
			BIAS CORR	0.845861		
12	8	4	VAR COEFF	0.006443		0.008112
			EFFICIENCY	91.75		98.33
			2	0.321455	4	0.244183
			8	0.678545	8	0.849613
			BIAS CORR	0.845861		
			VAR COEFF	0.006443		0.008112
			EFFICIENCY	91.75		98.33
13	8	4	2	0.321455	4	0.244183
			8	0.678545	8	0.849613
			BIAS CORR	0.845861		
			VAR COEFF	0.006443		0.008112
			EFFICIENCY	91.75		98.33
			2	0.321455	4	0.244183
			8	0.678545	8	0.849613
13	8	4	BIAS CORR	0.818871		
			VAR COEFF	0.006018		0.008054
			EFFICIENCY	98.23		99.03
			2	0.321455	4	0.244183
			8	0.678545	8	0.849613
			BIAS CORR	0.845861		
			VAR COEFF	0.006443		0.008112
13	8	4	EFFICIENCY	91.75		98.33
			2	0.321455	4	0.244183
			8	0.678545	8	0.849613
			BIAS CORR	0.845861		
			VAR COEFF	0.006443		0.008112
			EFFICIENCY	91.75		98.33
			2	0.321455	4	0.244183
13	8	4	8	1.000000	8	1.040560
			BIAS CORR	0.961021		
			VAR COEFF	0.007899		0.008553
			EFFICIENCY	74.84		93.26
			1	0.147008	1	0.020747
			2	0.060044	2	0.001643
			3	0.121824	3	0.131439
13	7	7	4	0.004431	4	-0.063117
			5	0.138296	5	0.183965
			6	0.037520	6	0.018293
			7	0.490876	7	0.857817
			BIAS CORR	0.784809		
			VAR COEFF	0.006318		0.009265

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		53.27
11	7	6	1	0.147022	1	0.021239
			2	0.059972	3	0.132538
			3	0.123774	4	-0.063183
			5	0.140971	5	0.184088
			6	0.036657	6	0.018039
			7	0.491603	7	0.858004
				BIAS CORR		
				VAR COEFF		0.009265
				EFFICIENCY		100.00
13	7	5	1	0.147310	1	0.021139
			2	0.058476	3	0.133898
			3	0.125494	4	-0.065549
			5	0.157864	5	0.193618
			7	0.510857	7	0.867575
				BIAS CORR		
				VAR COEFF		0.009265
				EFFICIENCY		100.00
13	7	4	1	0.165236	3	0.147739
			3	0.163780	4	-0.065737
			5	0.157229	5	0.193524
			7	0.513756	7	0.868473
				BIAS CORR		
				VAR COEFF		0.009271
				EFFICIENCY		99.93
13	7	3	1	0.166615	3	0.119894
			3	0.228078	5	0.159847
			7	0.605307	7	0.865101
				BIAS CORR		
				VAR COEFF		0.009278
				EFFICIENCY		99.85
13	7	2	1	0.250070	3	0.183836
			7	0.749930	7	0.958848
				BIAS CORR		
				VAR COEFF		0.009351

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		93.47
						99.08
12	7	1	7	1.000000	7	1.097119
				BIAS CORR		0.911479
				VAR COEFF		0.008002
				EFFICIENCY		78.96
						96.19
12	6	6	1	0.153864	1	0.015632
			2	0.093006	2	0.055909
			3	0.057009	3	0.012911
			4	0.105641	4	0.118204
			5	0.066857	5	0.059660
			6	0.523623	6	0.943766
				BIAS CORR		0.753072
				VAR COEFF		0.006811
				EFFICIENCY		100.00
				EFF(M/N)		71.89
						45.24
12	6		1	0.153732	1	0.015616
			2	0.094361	2	0.060864
			3	0.054498	4	0.126017
			4	0.137352	5	0.058785
			6	0.560057	6	0.944588
				BIAS CORR		0.753243
				VAR COEFF		0.006817
				EFFICIENCY		99.91
						100.00
12	6	4	1	0.153837	2	0.072859
			2	0.115367	4	0.126151
			4	0.168819	5	0.058321
			6	0.561976	6	0.945167
				BIAS CORR		0.753894
				VAR COEFF		0.006824
				EFFICIENCY		99.81
						99.97
12	6	3	1	0.202153	2	0.072968
			4	0.230518	4	0.152492
			6	0.567329	6	0.976872
				BIAS CORR		0.758395
				VAR COEFF		0.006897
				EFFICIENCY		98.76
						99.93

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
11	6	2	1	0.246081	4	0.207080
			6	0.753919	6	0.980309
			BIAS CORR	0.756841		
			VAR COEFF	0.007126		0.010957
			EFFICIENCY	95.58		99.55
13	6	1	6	1.000000	6	1.160983
			BIAS CORR	0.861335		
			VAR COEFF	0.008278		0.011157
			EFFICIENCY	82.28		97.77
13	5	7	1	0.171086	1	0.024442
			2	0.086239	2	0.036763
			3	0.093983	3	0.078717
			4	0.081334	4	0.074842
			5	0.567357	5	1.058308
			BIAS CORR	0.718083		
			VAR COEFF	0.007451		0.013210
			EFFICIENCY	100.00		100.00
			EFF(M/N)	65.72		37.36
13	5	4	1	0.171456	1	0.035505
			2	0.085828	3	0.102841
			3	0.129070	4	0.074287
			5	0.613645	5	1.059248
			BIAS CORR	0.718381		
			VAR COEFF	0.007462		0.013215
			EFFICIENCY	99.85		99.96
13	5	3	1	0.198039	1	0.035486
			3	0.185444	3	0.134486
			5	0.616517	5	1.101460
			BIAS CORR	0.720306		
			VAR COEFF	0.007492		0.013225
			EFFICIENCY	99.45		99.89
13	5	2	1	0.246046	3	0.157653
			5	0.753954	5	1.102767
			BIAS CORR	0.727248		
			VAR COEFF	0.007660		0.013241

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

A	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		97.27
						99.76
13	5	1	5	1.000000	5	1.236398
				BIAS CORR		0.808801
				VAR COEFF		0.008754
				EFFICIENCY		85.11
13	4	4	1	0.189977	1	0.027492
			2	0.101904	2	0.057768
			3	0.095072	3	0.078188
			4	0.613047	4	1.195543
				BIAS CORR		0.677994
				VAR COEFF		0.008345
				EFFICIENCY		100.00
				EFF(M/N)		58.67
13	4	2	1	0.190378	2	0.078934
			2	0.138688	3	0.078113
			4	0.670934	4	1.196096
				BIAS CORR		0.678683
				VAR COEFF		0.008367
				EFFICIENCY		99.74
13	4	2	1	0.248991	2	0.108903
			4	0.751009	4	1.243317
				BIAS CORR		0.683241
				VAR COEFF		0.008472
				EFFICIENCY		98.50
13	4	1	4	1.000000	4	1.330668
				BIAS CORR		0.751502
				VAR COEFF		0.009512
				EFFICIENCY		87.73
13	3	3	1	0.220856	1	0.037326
			2	0.115906	2	0.072755
			3	0.663238	3	1.368701
				BIAS CORR		0.629980
				VAR COEFF		0.009704
				EFFICIENCY		100.00
				EFF(M/N)		50.46

TABLE II  
COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM  $r$ -ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	i	j	LOCATION	i	SCALE
13	3	2	1	0.257126	2	0.101507
			3	0.742874	3	1.369411
			BIAS CORR	0.632024		
		VAR COEFF	0.009758		0.022792	
		EFFICIENCY	99.44		99.94	
13	3	1	2	1.000000	3	1.458660
			BIAS CORR	0.685561		
			VAR COEFF	0.010738		0.022847
		EFFICIENCY	90.37		99.70	
13	2	2	1	0.273954	1	0.054469
			2	0.726044	2	1.615857
			BIAS CORR	0.568414		
		VAR COEFF	0.012101		0.035561	
		EFFICIENCY	100.00		100.00	
		EFF(M/N)	40.46		13.88	
13	2	1	2	1.000000	2	1.658792
			BIAS CORR	0.602776		
			VAR COEFF	0.012937		0.035592
		EFFICIENCY	93.98		99.91	
13	1	1	1	1.000000	1	2.094907
			BIAS CORR	0.477348		
			VAR COEFF	0.017434		0.076705
		EFFICIENCY	100.00		100.00	
		EFF(M/N)	27.30		6.27	

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## ABSTRACT

The method of least-squares is used to develop linear, unbiased, conditional estimators for the location and scale parameters of the Weibull probability density function with known shape parameter. Tables are provided for computing estimators from 1 order statistics selected from the  $m$  smallest values of a sample of size  $n$ . A method is presented for computing simultaneous estimators directly from the conditional estimators. The tables include sample sizes from 2 to 13 for eleven values of shape parameter--0.5(0.25)2.0(0.5)4.0.

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Estimation						
Method of least-squares						
Censored data						
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